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Mid-Year Commencement

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The University of North Carolina at Chapel Hill

Sunday, December 21, 1997

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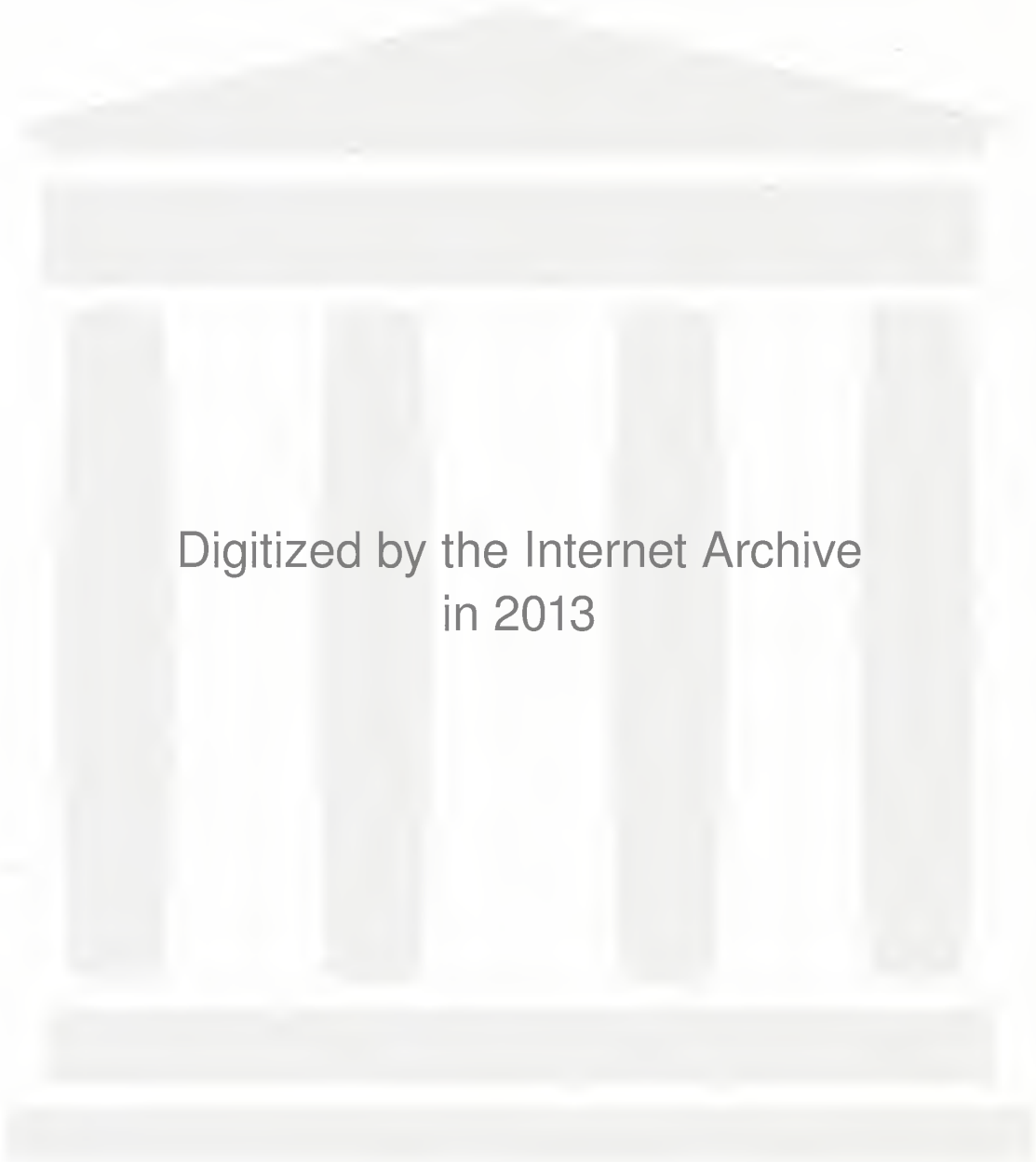
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1997

Mid-Year Commencement

Sunday, December 21, 1997

Greetings

Graduates, it is my great pleasure to welcome you to the December 1997 Commencement ceremony. This is a special day in the life of the University, an occasion on which we celebrate your accomplishments and thank those who helped make them possible.

As you are aware, the University's reach extends throughout the state, from the Marine Sciences Institute in Wilmington to the grade schools in Buncombe County. Whatever career you choose to pursue and wherever you pursue it, your education and your University will serve you well. I am confident that you will find Carolina to be a lifelong resource for personal and professional development.

At the University, you have learned to value the power of the right question as much as the power of the right answer. I encourage you to keep asking questions, of yourself and your world. When you find questions that have no good answers, see what you can do. For it is in the search for answers, the process of discovery, in other words, that you will find life's greatest rewards.

As Carolina alumni, you are well equipped to lead change, and to guide it in the best directions as well. When you find yourself in need of support, come back to your alma mater. Your professors will be eager to see you. You will find inspiration in the familiar places and the lovely grounds.

In a world that prizes information, wisdom is an especially valuable commodity. My experience suggests that it is the better part of wisdom to savor life's good moments. This is certainly one of them, and I extend my heartiest congratulations to you.

Sincerely,

Michael Hooker

Table of Contents

2 Greetings from the Chancellor

4 *Alma Mater*, "Hark the Sound"

5 The Commencement Program

6 Board of Trustees

7 Class of 1998 Leaders

7 Graduate and Professional Student Federation Officers

8 The Chancellor

8 The Commencement Speaker

9 Notes on Academic Dress

10 Explanation of Degree Abbreviations

11 Candidates for Degrees in December 1997

24 Candidates Commissioned in the U.S. Armed Forces

25 Degrees Awarded in August 1997

33 Candidates Commissioned in the U.S. Armed Forces

34 History of The University of North Carolina at Chapel Hill

36 A Message to Carolina's Newest Alumni

36 Commencement Committee

Candidates for December 1997 degrees are expected to complete degree requirements at the conclusion of the fall semester. Degrees are officially conferred on December 31, 1997.

Graduates and guests are invited to the Chancellor's Reception on the Smith Center concourse after Commencement. Graduates will recess to the reception area at the ceremony's end.

Alma Mater

The words of "Hark the Sound," UNC-Chapel Hill's *alma mater*, were written in 1897 by William Starr Myers, a graduating senior. The Glee Club director asked Myers to put words to the tune "Amici," and the song was first performed on June 2, 1897, as part of the Glee Club's Commencement performance in Gerrard Hall.

Soon the song was almost forgotten. When a University quartet tried a few years later to remember the words, they could recollect only the first verse and the chorus of Myers' original version. Two members of the quartet, Charles S. Mangum and Charles T. Woollen, added two verses to the one they remembered. Mangum later became a professor in the School of Medicine, and Woollen worked as the University's business manager and controller.

Hark the Sound

Hark, the sound of Tar Heel voices
Ringing clear and true,
Singing Carolina's praises,
Shouting N.C.U!

Hail to the brightest star of all!
Clear its radiance shine!
Carolina, priceless gem,
Receive all praises thine.

For Your Information

A sign language interpreter will be on the platform. A student marshal or Disability Services staff member can advise persons with hearing impairments about seating from which to view the interpreter.

This Commencement program is printed prior to administering final examinations. Therefore, including degree candidates' names in this program does not represent certification that candidates have satisfactorily completed degree requirements.

The Commencement Program

Concert by the University Band
Jeffrey W. Fuchs, Director

Academic Procession
The Faculty Marshal
Ronald W. Hyatt, Professor of Physical Education, Exercise and Sport Science

Marshals from the Class of 1998 will lead the groups to their seats.

The Chief Student Marshal
Franklin C. Golden Jr., President of the Class of 1997

The Official Party

The Faculty

The Candidates for the Degrees of Doctor of Philosophy, Doctor of Education, and Doctor of Public Health

The Candidates for Master's and Professional Degrees

The Candidates for Baccalaureate Degrees

Presiding
Michael Hooker,
Chancellor of The University of North Carolina at Chapel Hill

National Anthem
Stafford Wing, Associate Professor of Voice, Department of Music
With the Entire Assemblage

Remarks
For the Board of Governors of The University of North Carolina:
C. Clifford Cameron, Chair

For the University of North Carolina: Molly C. Broad, President

For the Board of Trustees of The University of North Carolina at Chapel Hill:
Richard Y. Stevens, Chair

For the General Alumni Association: Edward H. Hardison, Chair

For the Graduate and Professional Student Federation: Katherine L. Kraft, President

For the Class of 1998: Franklin C. Golden Jr., President

Introduction of Commencement Speaker
S. Russell Mahan, Vice President of the Class of 1998

Commencement Address
John Shelton Reed, William Rand Kenan Jr. Professor of Sociology

Introduction of Deans, Conferring of Degrees, and Chancellor's Charge to the Graduates
Michael Hooker

"Hark the Sound"
Stafford Wing,
with the Entire Assemblage

Academic Recessional
Please remain in place for the recessional of the Official Party, Faculty, and Candidates for Degrees – led by the Faculty Marshal and Marshals of the Class of 1998.

Board of Trustees

The UNIVERSITY *of* NORTH CAROLINA *at* CHAPEL HILL

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Latonya Renee Anderson
Diara Zerita Andrews
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George Hull Baldwin
Stephanie Leigh Black
Sarah Sydney Boone
Margaret Ellen Booth
Elizabeth Caroline Brown
Ben D. Council
Alexander Clay Dale
Jamie Marie Dowd
Anthony Levon Fleming
Shana La Verne Fulton
Heralda Mavis Gregg
Kimberly Michelle Hemmer
Albert Russell Hendrix
Ravi Ramesh Hichkad
Dimitrios Panagiotis Hondros
Sherry Renee Honeycutt
Luv Ram Javia
Leslie Carolyn Kendrick
Meredith Lee Keyes
Kerry Ann Kilar
Goeffrey Craig Kugle
Bronwyn Carey Leech
Stephen Jim Liu
Millie Dascomb Long
Mark John Midle
David Scott Moricca
Heather Michelle Overfield
Rita Jayanti Patel
Ashley Renea Queen
Jennifer Ellis Savitz
Emily Sue Schmid
Nirav Gopal Shah
Erin Elizabeth Shefield
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Amy Beth Sigrist
Alexis Leighanne Slagle
Elizabeth Lynn Stern
Alexander Buchanan Stubbs
Mary Lynn Van Wyck
Nikki Rai Waddell
Lora Michelle Walters
India Irene Williams
Teresa Ann Williams
Blair Wynns Willis
Kathryn Anne Wood
Candice Sylvette Wooten

Michael Hooker, Chancellor

In 1969, Michael Hooker became the first person in his family to earn a college degree: no small accomplishment for someone from the coalfields of southwest Virginia near Richland. Hooker credits his parents' strong work ethic – his father was a coalminer – and their unwavering belief in education for his academic success at The University of North Carolina at Chapel Hill and beyond.

Hooker returned to Chapel Hill on July 1, 1995, as Carolina's eighth chancellor, continuing an extraordinary career for a man of his years. He was president of a prestigious private school, Bennington College, at age 36; president of the University of Maryland-Baltimore County at age 40; and president of the five-campus University of Massachusetts system at age 47. Hooker took UNC-Chapel Hill's helm at age 49.

The Chancellor spent 1996-97 visiting all 100 North Carolina counties to the state's economy and educational system. The issue-oriented tour, which Hooker calls a "life-changing experience," included visits to classrooms, teachers, principals, and superintendents as well as community colleges. He also visited legislators, alumni, and incoming and current Carolina students in their hometowns. And he participated in a weeklong, 1,200-mile bus tour of more than 40 counties last May to introduce 26 new faculty members from out of state to the "real" North Carolina – from tobacco farms in the east to the handmade-craft industry in the west.

Findings from the 100-county tour will help Hooker as the sole North Carolinian on the 1998 Commission on the Future of the South. Governor Jim Hunt nominated the chancellor to serve on the panel, which will help guide the region into the twenty-first century through recommendations on issues such as technology, globalization, and training the workforce of the future.

In 1996, Hooker was among the first 20 college presidents named by Secretary of Education Richard Riley to serve on a steering panel for the "America Reads Challenge" initiative, which will boost the ranks of college students helping elementary students learn to read well by the end of the third grade. Hooker, a member of the Association of Governing Boards' Advisory Board of Presidents, has served on the American Association of State Colleges and Universities' Committee on International Programs, and chaired the American Council of Education's Commission on Leadership Development.

Hooker earned his bachelor's degree with highest honors from Carolina in 1969 and master's and doctoral degrees in philosophy from the University of Massachusetts-Amherst in 1972 and 1973, respectively. An expert on seventeenth-century philosophy, he has studied medical ethics and ethical problems linked to biotechnology.

Hooker is the father of a 15-year-old daughter, Alexandra. His wife, Carmen, a Philadelphia native, is group vice president for the Carolinas HealthCare System. She served six terms in the Massachusetts House of Representatives and was House Chairman of the Joint Committee on Health Care. She has two daughters: Jennifer, a public school teacher in Charlotte, and Cyndi, an art student at the Museum School in Boston.

John Shelton Reed, Commencement Speaker

Dr. John Shelton Reed, a distinguished professor of sociology and director of the Institute for Research in Social Science, is a noted author, speaker, and expert on the South.

Reed has been in the Department of Sociology at UNC-Chapel Hill for twenty-eight years, and is a William Rand Kenan Jr. Professor. His articles have appeared in professional and popular periodicals ranging from *Science* to *Southern Living.* He also is a founding co-editor of the quarterly *Southern Cultures.*

Reed recently received the 1995 Prize for Non-Fiction from the Fellowship of Southern Writers. He has written or edited more than a dozen books, including one written with his wife called *1001 Things Everyone Should Know about the South.* Among his other books are *The Enduring South: Subcultural Persistence in Mass Society* and *Southerners: The Social Psychology of Sectionalism.*

Reed spent the past year at Cambridge University in England as the Pitt Professor of American History and Institutions. He has been a Guggenheim Fellow, a Fellow of the National Humanities Center, and a Fellow of the Center for Advanced Study in Behavioral Sciences.

President Ronald Reagan appointed Reed to the Council of the National Endowment for the Humanities. Reed also served as president of the Southern Sociological Society and is the only sociologist to be included in *Roy Blount's Book of Southern Humor.*

Reed, a native of Tennessee, graduated from the Massachusetts Institute of Technology with degrees in political science and mathematics. He received his Ph.D. in Sociology from Columbia University.

Notes on Academic Dress

The following information, condensed from *An Academic Costume Code and Ceremony Guide* and published by the American Council on Education, may be helpful in identifying academic attire worn during today's ceremony.

The history of academic dress dates back to the European Middle Ages when scholars at the oldest universities were clerics. Capes with hoods and warm caps were needed in cold, drafty buildings. The desire for a uniform appearance ("well born, well turned-out, and somewhat learned," read one medieval formula) and for marks to distinguish bachelor's, master's, and doctoral degree candidates led to the development of today's academic costume.

In 1895, representatives from American colleges and universities met at Columbia University and fashioned a standard code of academic dress for this country. The code, modified in 1959, is still in force. The costumes, colors, trimmings, and patterns you see are traditional, and refer to the specific degree and field of study.

The bachelor's gown, designed to be worn closed, has pointed sleeves. The master's gown, which may be worn open or closed, has an oblong sleeve, open at the wrist, that hangs nearly to the ground; the back part of its oblong shape is square cut and the arc in the front is cut away. The doctor's gown may be worn open or closed, and has bell-shaped sleeves.

Bachelors' and masters' gowns are untrimmed. Doctors' gowns are usually faced with black velvet, with three bars across the sleeves, although the color of the velvet may vary according to the field of study. Hoods, which differ in length for the three degrees, are lined with official colors of the university or college that conferred the degree, usually with one color forming a chevron pattern over the other. Some colors you will see on faculty and administrators' robes are: the crimson of Harvard, the maroon of Chicago, the light blue and white of North Carolina, the orange and black of Princeton, and the dark blue of Yale.

Hoods also are edged and bound with velvet in the color appropriate to the field of study. You will see many hoods in our procession edged with dark blue, for doctor of philosophy (Ph.D.). The colors in the hoods and gowns of faculty represent the following fields in which degrees were taken:

Apricot: Nursing
Brown: Fine Arts
Citron: Social Work
Crimson: Journalism
Dark Blue: Philosophy
Golden Yellow: Science
Green: Medicine
Lemon-Yellow: Library Science
Light Blue: Education
Lilac: Dentistry
Olive-Green: Pharmacy
Orange: Engineering
Pink: Music
Purple: Law
Sage Green: Physical Education
Salmon Pink: Public Health
Scarlet: Theology
Yellow-Brown: Commerce, Business, Accountancy
White: Arts, Letters, Humanities

Degree Abbreviations

The following list explains the abbreviations of degrees conferred on students at UNC-Chapel Hill.

A.B.: Bachelor of Arts
A.B.Educ.: Bachelor of Arts in Education
A.B.Jo.M.C: Bachelor of Arts in Journalism and Mass Communication
B.F.A.: Bachelor of Fine Arts
B.Mus.: Bachelor of Music
B.M.Educ.: Bachelor of Music Education
B.S.App.Sc.: Bachelor of Science in Applied Science
B.S.B.A.: Bachelor of Science in Business Administration
B.S.Biol.: Bachelor of Science in Biology
B.S.Chem.: Bachelor of Science in Chemistry
B.S.C.L.S.: Bachelor of Science in Clinical Laboratory Science
B.S.D.H.: Bachelor of Science in Dental Hygiene
B.S.Dent.: Bachelor of Science in Dentistry
B.S.Geol.: Bachelor of Science in Geology
B.S.Math.: Bachelor of Science in Mathematics
B.S.M.S.: Bachelor of Science in Mathematical Sciences
B.S.M.T.: Bachelor of Science in Medical Technology
B.S.Med.: Bachelor of Science in Medicine
B.S.N.: Bachelor of Science in Nursing
B.S.Phar.: Bachelor of Science in Pharmacy
B.S.Phys.: Bachelor of Science in Physics
B.S.Psyc.: Bachelor of Science in Pschology
B.S.P.T.: Bachelor of Science in Physical Therapy
B.S.P.H.: Bachelor of Science in Public Health
B.S.R.S.: Bachelor of Science in Radiologic Science
B.S.S.T.: Bachelor of Science in Science Teaching
Cert.Dent.Hy.: Certificate in Dental Hygiene
C.A.S.I.L.S.: Certificate of Advanced Study in Information and Library Science
C.Gr.Ed.: Certificate of Graduate Study in Education
D.D.S.: Doctor of Dental Surgery
D.P.H.: Doctor of Public Health
Ed.D.: Doctor of Education
Dr.Phar.: Doctor of Pharmacy
J.D.: Juris Doctor
M.Acctg.: Master of Accounting
M.A.: Master of Arts
M.A.T.: Master of Arts in Teaching
M.B.A.: Master of Business Administration
M.D.: Doctor of Medicine
M.Ed.: Master of Education
M.F.A.: Master of Fine Arts
M.H.A.: Master of Health Care Administration
M.Mus.: Master of Music
M.P.A.: Master of Public Administration
M.P.H.: Master of Public Health
M.R.P.: Master of Regional Planning
M.S.: Master of Science
M.S.E.E.: Master of Science in Environmental Engineering
M.S.I.S.: Master of Science in Information Science
M.S.L.S.: Master of Science in Library Science
M.S.N.: Master of Science in Nursing
M.S.P.H.: Master of Science in Public Health
M.S.R.A.: Master of Science in Recreation Administration
M.S.W.: Master of Social Work
Ph.D.: Doctor of Philosophy

Candidates for Graduate Degrees • December 1997

The Graduate School

Established 1876

Dean Linda Dykstra

Doctor of Philosophy

Degree candidates' names are followed by their area of major study, dissertation or project title, and the name of their advisor.

Amelia D. Adkins, *Social Foundations*, The Colonial Vestiges of Educational Reform. Under the direction of Professor George W. Noblit.

Arthur S. Alderson III, *Sociology*, Globalization, Deindustrialization, and The Great U-Turn: the Growth of Direct Investment in Eighteen OECO Nations. Under the direction of Professor François Nielsen.

Ana-Isabel Aliaga-Buchenau, *Comparative Literature*, The "Dangerous" Potential of Reading: Readers and the Negotiation of Power in Selected Nineteenth-Century Narratives. Under the direction of Professor Lilian R. Furst.

Gustavo Angeles, *Economics*, Targeted Program Placement, Endogenous Schooling, Selective Migration and the Evaluation of Social Programs. Under the direction of Professor Thomas Mroz.

Elizabeth Mazza Anthony, *Romance Languages*, Storytelling in the Theater of Marguerine Duras and Marie Redonnet: A Poetics of Relating. Under the direction of Professor Martine Antle.

Maria Cristina Arguelles, *Operations Research*, Exploiting Special Structure to Enhance Efficiency of Manufacturing Simulation. Under the direction of Professor George Fishman.

Julia Terry Arnold, *Pathology*, Human Endometrial Stromal Cells Regulate Epithelial Cell Growth and Function in In Vitro Coculture. Under the direction of Professor David G. Kaufman.

Gavin Edward Arteel, *Toxicology*, Hypoxia and Liver Injury: Studies with the Hypoxia Marker Pimonidazole. Under the direction of Professor Ronald G. Thurman and Professor James A. Raleigh.

Henry Amin Azar, *History*, Ibn Zuhr (Avenzdar), The Greatest Physician since Galen: His Reputation and Influence in Medieval Europe. Under the direction of Professor Michael R. McVaugh.

Jonathon David Ball, *Chemistry*, Substitutent Effects on the Spin-Exchange Interaction in Flexible Organic Biradials. Under the direction of Professor Malcolm D. E. Forbes.

Eric Barnes, *Philosophy*, Cooperation and Trust: Puzzles in Utilitarian and Contractarian Moral Theory. Under the direction of Professor Michael Resnick.

Mary Victoria Basolo, *City and Regional Planning*, Housing Policy in the Local Political Economy: Understanding the Support for Affordable Housing Programs in Cities. Under the direction of Professor William M. Rohe.

Mark A. Beck, *Classics*, The Use of Anecdotes and the Representation of Ethos in Plutarch's Lives. Under the direction of Professor Philip A. Stadter.

Lezley Faye Blair, *School Psychology*, Predictors in Early Adolescence of Conceptualization of Each HIV/AIDS Causation. Under the direction of Professor Rune Simeonsson.

Jennifer Kay Blazing, *Business*, How Perceptions about the Purity of Sponsor Motives Affect the Persuasiveness of Socially Oriented Communications. Under the direction of Professor Paul N. Bloom.

Walter Steven Borowski, *Geology*, The Effect of Continental Gas Hydrates on Pore-Water Concentration Gradients and Diagenetic Processes. Under the direction of Professor Charles K. Paull.

Michael Nicholas Boucher, *Environmental Sciences and Engineering*, Investigation of New Nuclei Formation during Heteromolecular Nucleation Using an Adiabatic Pulsed Condensation Nuclei Counter. Under the direction of Professor Parker Reist.

Linda Louise Bowerman, *Biology*, Ultrastructure of Lagenidium Caudatum. Under the direction of Professor A. Domnas.

Karen Elaine Bruhn, *Religious Studies*, What these Seemers Be: Calvinist Concepts of Identity and Measure for Measure. Under the direction of Professor Peter Iver Kaufman.

Ramona L. Burton, *Political Science*, School District Mergers and Desgregation in North Carolina. Under the direction of Professor Duncan MacRae.

Judith Baker Cain, *Chemistry*, Application of Pulsed Field Gradient Nuclear Magnetic Resonance to the Study of Block Copolymers in Carbon Dioxide. Under the direction of Professor C. S. Johnson Jr.

William Keith Campbell, *Psychology*, Narcissism and Romantic Attraction. Under the direction of Professor Constantine Sedikides.

Dorian Adele Canelas, *Chemistry*, Heterogeneous Polymerizations Using Nonionic Surfactants in Liquid and Supercritical Carbon Dioxide. Under the direction of Professor Joseph M. DeSimone.

Barbara Waag Carlson. *Nursing*, Cognitive Decline in Older Adults: Development of a Method to Monitor and Characterize Breathing Patterns during Sleep. Under the direction of Professor James D. Beck.

Susan Emanuel Carozza, *Epidemiology*, Occupation and Adult Gliomas. Under the direction of Professor Beth Newman.

Myra Ann Carpenter, *Epidemiology*, Anthropometric and Pulmonary Function Correlates of Maximum Inspiratory Pressure. Under the direction of Professor Gerardo Heiss.

Alice Alden Cavanaugh, *Art History*, L'honneur et la Nature: Representation of Fathers and Daughters in Eighteenth-Century French History Paintings. Under the direction of Professor Mary D. Sheriff.

David T. Chen, *Computer Science*, Volume Rendering Guided by Multiscale Medial Models. Under the direction of Professor Stephen M. Pizer.

Feng-Jing Chen, *Pharmacy*, Lysosomotropic Detergents for Delivery of Macromolecules. Under the direction of Professor Moo J. Cho.

Su-yin Chiang, *Environmental Sciences and Engineering*, Mutational Specificity Ethenoadduct Formation and Repair in Vinyl Chloride-Exposed Human Cells. Under the direction of Professor James A. Swenberg and Professor Thomas R. Skopek.

 Every effort has been made to ensure the accuracy of this program's content. Any omissions or errors are unintentional.

Ngina S. Chiteji, *Economics*, Essays on Financial Systems and Development. Under the direction of Professor William Darity Jr.

Patricia A. Clubb, *Psychology*, Contexts for Development and Longitudinal Patterns of Violence among African American Adolescents. Under the direction of Professor Peter A. Ornstein.

Bradford William Coffee, *Microbiology and Immunology*, Regulation of Mouse L1 Transcription. Under the direction of Professor Clyde A. Hutchinson III.

Neville Michael Concessio, *Pharmacy*, Dynamic Properties of Pharmaceutical Powders and their Impact on Aerosol Dispersion. Under the direction of Professor Anthony J. Hickey.

Jennifer M. Cooper, *Special Education*, An Exploratory Study of Metacognition and Verbally Gifted/Learning Disabled Learners with and without Reading Disabilities. Under the direction of Professor Jim Cunningham and Professor Mary Ruth Coleman.

Jeffrey D. Corbin, *Biology*, The Effects of Experimental Nitrogen and Phosphorus Addition on a Temperate Deciduous Forest Ecosystem. Under the direction of Professor Robert K. Peet.

Elizabeth Jennings Craig, *Romance Languages*, Victor Hugo's Private Sphere: Family Relationships in the Exile Novels. Under the direction of Professor Stirling Haig.

Rex Bailey Crews, *Classics*, The Handbooks De Officio Proconsulis: Authorship and Audience. Under the direction of Professor Richard J. A. Talbert.

Shannon Smith Currey, *Psychology*, Behavioral Prediction and Certitude: Adding to the Theory of Reasoned Action. Under the direction of Professor Vaida Thompson.

Kourtney Johnston Davis, *Epidemiology*, Epidemiology of Dementia Special Care Units. Under the direction of Professor Burt Kaplan and Professor Phil Sloane.

Mary Elaine Davis, *Social Foundations of Education*, Making History: How Children Construct the Past. Under the direction of Professor George Noblit.

Amy DeRogatis, *Religious Studies*, Moral Geography: The Plan of Union Mission to the Western Reserve, 1787-1833. Under the direction of Professor Laurie F. Maffly-Kipp.

Robert Edwin Derr, *Statistics*, Statistical Modeling of Microstructure with Applications to Effective Property Computation in Materials Science. Under the direction of Professor Chuanshu Ji.

Emily DeVoto, *Epidemiology*, Risk of Breast Cancer Associated with Chlorinated Hydrocarbons Measured in Plasma. Under the direction of Professor Robert C. Milliken.

Guy Thomas DiDonato, *Ecology*, An Experimental Investigation of Interactions between Two Freshwater Mussels, Elliptio Waccamawensis and Leptodea Ochracea, in Lake Waccamaw, North Carolina: Effects of Scale and Environment. Under the direction of Professor Alan E. Stiven.

Theodorus Jacobus Dingemans, *Chemistry*, Nonlinear Geometries in Liquid Crystals and Liquid Crystalline Polymers. Under the direction of Professor E. T. Sawulski.

Debra Anne Donahue, *Sociology*, Women's Work and Fertility in Egypt. Under the direction of Professor Barbara Entwisle.

Jonelle K. Drugan, *Biochemistry*, Interactions between the Raf-1 Cysteine-Rich Domain and Ras, 14-3-3 Proteins, and Phosphatidylserine are Important for Raf-1 Activation. Under the direction of Professor Sharon L. Campbell.

William Maury Duckworth II, *Statistics*, Codes, Designs, and Distance. Under the direction of Professor Indra M. Chakravarti.

Jane McManus Eastman, *Anthropology*, The Sara: Native Communities along the Dan River A.D. 1000 to A.D. 1700. Under the direction of Vincas P. Steponaitis.

John Robert Elter, *Epidemiology*, Etiologic Models for Incident Periodontal Attachment Loss in Older Adults. Under the direction of Professor James D. Beck.

Patricia A. Evans, *Anthropology*, St. Lucian Cultural Landscapes: A Phenomenological and Anthropological Examination of Caribbean Architecture, Spatial Relations, and Aesthetics. Under the direction of Professor Carole Crumley.

Tom P. Evans, *Geography*, Integration of Community Level Population and Environmental Data: Spatial Modeling of Community Boundaries in Northeast Thailand. Under the direction of Professor Stephen J. Walsh.

Rickard E. Faith, *Computer Science*, Debugging Programs after Structure Changing Formation. Under the direction of Professor Jan F. Prins.

Michael R. Falvo, *Physics*, Mechanical and Interfacial Properties of Nanometer Scale Materials. Under the direction of Professor Richard Superfine.

Curtis Florence, *Economics*, Three Essays on Job Search Methods and Search Outcomes. Under the direction of Professor David Blau.

Jenny Jennings Foerst, *English*, Crosshatching: Postgendering Structures in Absalom, Absalom! and The Golden Bowl. Under the direction of Professor Linda Wagner-Martin.

Sally Wallace Fowler, *Business*, High-Risk Strategic Decision Making: The Case of Investment in China. Under the direction of Professor Richard A. Bettis and Professor Carl P. Zeithaml.

Gregory D. Fox, *Psychology*, The Hippocampus and Stimulus Selection. Under the direction of Professor Michela Gallagher.

Lance Mark Freeman, *City and Regional Planning*, Interpreting the Dynamics of Public Housing Residence: Cultural and Structural Explanations. Under the direction of Professor William Rohe.

Joseph Anton Galanko, *Biostatistics*, Nonparametric Analysis of Covariance with Discrete Nonconcomitant Covariables. Under the direction of Professor Dana Quade.

Qingyuan Ge, *Chemistry*, Feedback Regulation of Ste7p, the MEK in the Pheromone Response Pathway of Saccharomyces cerevisiae. Under the direction of Professor Beverly J. Errede.

Paul Gendreau, *Psychology*, Dopamine Receptor Mediation of Social-Emotional Reactivity in Mice. Under the direction of Professor Jean-Louis Gariepy and Professor Mark H. Lewis.

Jenifer Goldman-Fraser, *Psychology*, Cognitive Influences on Mother-Infant Interaction: A Focus on Substance-Dependent Women in Treatment during Pregnancy and Postpartum. Under the direction of Professor Beth Kurtz-Costes.

Nancy Christine Gottovi, *Anthropology*, The Serious Problem of Mundane Racism: A Case of the Marginalization of African American Parents in United States Schools. Under the direction of Professor Dorothy Holland.

Steven Keith Green, *History*, The Rhetoric and Reality of the "Christian Nation" Maxim in American Law, 1810-1920. Under the direction of Professor John E. Semonche.

Andrew Thomas Groover, Biology, Programmed Cell Death of Tracheary Elements. Under the direction of Professor Alan M. Jones.

Pamela Charlene Grundy, *History*, The Conditions of Success: Sports, Education and Social Change in North Carolina, 1887-1967. Under the direction of Professor John Kasson.

Elizabeth Alison Gulley, *English*, Modes of Chastity and Contours of Female Piety: Aelfric's Virgin Martyrs and His Latin Sources. Under the direction of Professor J. S. Wittig.

Mthobeli Phillip Guma, *Anthropology*, The Politics of UMOYA: Variation in the Interpretation and Management of Diarrheal Illnesses among Mothers, Professional Nurses, and Indigenous Health Practitioners in Khayelisha, South Africa. Under the direction of Professor Judy Farquhar.

Kimberly Joy Haines-Eitzen, *Religious Studies*, Literacy, Power, and the Transmitters of Early Christian Literature. Under the direction of Professor Bart D. Ehrman.

Paula Mason Hall, *Political Science*, Race, Representation, and Equity in North Carolina Public Schools. Under the direction of Professor Duncan MacRae Jr.

Heidi Anne Harkins, *Genetics and Molecular Biology*, Genetic Analysis of Bipolar Budding in Saccharomyces Cerevisiae. Under the direction of Professor John Pringle.

Kevin Webster Hathcock, *Chemistry*, Electrochemical HOPG Oxidation and Self-Assembled Porphyrin Monolayers. Under the direction of Professor Royce W. Murray.

Luis Hernandez, *Biomedical Engineering*, Validation of the Arterial Spin Tagging Measurement of Cerebral Perfusion. Under the direction of Professor Craig Branch.

Thomas F. Hooker, *Chemistry*, Interfacing and Detection Aspects of Two Dimensional Microcolumn Liquid Chromatography-Capillary Electrophoresis. Under the direction of Professor James W. Jorgenson.

Fu-Chih Hsu, *Environmental Sciences and Engineering*, Detection and Characterization of Enteric Bacteria and Bacteriophages as Indicators of Human and Animal Fecal Contamination in Foods. Under the direction of Professor Mark D. Sobsey.

Tamela Jean Hultman, *Journalism and Mass Communication*, Culture Clash: Values in Transition at the South African Broadcasting Corporation. Under the direction of Professor Anne M. Johnston.

Courtney Shelton Hunt, *Business Administration*, Disentangling Feelings: Developing a Taxonomy to be Used in Research on Emotions in the Workplace. Under the direction of Professor Christine M. Pearson.

Roychelle S. Ingram, *Chemistry*, Investigations of Electron Transfer and Mass Transport of Two- and Three-Dimensional Self-Assembled Monolayers. Under the direction of Royce W. Murray.

Myoseon Jang, *Environmental Sciences and Engineering*, Thermodynamic Approach Using Group Contribution Methods and Physicochemical Parameters to Model the Partitioning of SOCs on Atmospheric Particulate Matter. Under the direction of Professor Richard M. Kamens.

Dorthea Jamette Jeffery, *Chemistry*, Applications of Comprehensive Two-Dimensional Liquid Chromatography-Capillary Electrophoresis for the Investigation of Peptides in Complex Mixtures. Under the direction of Professor James W. Jorgenson.

Huanguang Jia, *Anthropology*, Chinese Medicine in Post-Mao China: Standardization and the Context of Modern Science. Under the direction of Professor Judith B. Farquhar.

Susan Paul Johnson, *Business Administration*, Simulating the Large Population Effects of Quality Management Techniques in a Health Care Clinical Process. Under the direction of Professor Curtis P. McLaughlin.

David M. Johnston, *Microbiology and Immunology*, Characterization and Mutagenesis of the opa gene family of Neisseria gonorrhoeae and Neisseria meningitidis. Under the direction of Professor Janne G. Cannon.

Dan Joseph Kadrmas, *Biomedical Engineering*, Application of Reconstruction-based Scatter Compensation to Single- and Dual-Isotope SPECT Imaging. Under the direction of Professor Eric C. Frey.

Jacob Kann, *Ecology*, Ecology and Water Quality Dynamics of a Shallow Hypereutrophic Lake Dominated by Cyanobacteria (Aphanizomenon flos-aquae). Under the direction of Professor Robert Peet and Professor Val Smith.

Terry J. Keating, *Environmental Sciences and Engineering*, Facts and Values, Cars, and Smog: Analytical Perspectives of Stakeholders in Air Quality Management. Under the direction of Professor Deborah Amaral.

Jeffrey William Keister, *Chemistry*, The Dissociation Energetics and Kinetics of Energy-Selected Gas-Phase Ions of C4H6, C4H9Br, C8H20Si, C6H16Si and C4H12Si Studied by Threshold Photoelectron-Photoion Coincidence. Under the direction of Professor Tomas Baer.

Jane Allen Kenyon, Romance Languages, Reinventing St. James for the Middle Ages: Pagan and Christian Elements in a Twelfth-Century Pilgrim's Guide. Under the direction of Professor Cesáreo Bandera.

James Edward King Jr, *Business Administration*, White-collar Workers and Job Insecurity: Adjusting Loyalty and Behavior in the Face of Changing Nature of Employment. Under the direction of Professor Arne Kalleberg and Professor Christine Pearson.

Martin Scott King, Statistics, Local Likelihood and Local Partial Likelihood in Hazard Regression. Under the direction of Professor Jienqing Fan.

Shelley Dean Kirkpatrick, *Psychology*, Consequences of Accommodation for Mood and Self-Esteem in Dating Relationships. Under the direction of Professor Caryl E. Rusbalt.

Brian Edward Kipp, *Chemistry*, The Synthesis of Fluoropolymers in CO2 and CO2/ Aqueous Systems. Under the direction of Professor Joseph DeSimone.

Aaron James Kitzmiller, *Neurobiology*, Enhancement of Kinetic Instability in Ca 2+ - Activated K+ Channels by Stabilization of Membrane Cytoskeleton. Under the direction of Professor Robert L. Rosenberg.

Otto Cho Wing Kong, *Physics and Astronomy*, Dicyclic Horizontal Symmetries. Under the direction of Professor Paul H. Frampton.

Teresa Lynn Kromis, *Chemistry*, Molecular Dynamic Simulations Provide Insight into the Interaction Between Bovine Prothrombin Fragment One and the Lipid Phosphatidylserine. Under the direction of Professor Richard G. Hiskey and Professor Lee G. Pedersen.

Karen Jennifer LaCroix, *Biomedical Engineering*, The Effect of Attenuation Compensation on Visual Detection of Cardiac Defects Using SPECT Images. Under the direction of Professor Benjamin M.W. Tsui.

Estelle Linda Lebeau, *Chemistry*, Oxidations of Organic and Inorganic Substrates by High Valent Ruthenium Oxo Complexes. Under the direction of Professor Thomas J. Meyer.

John Sidney Ledford, *Chemistry*, Mechanistic Studies of Palladium (II) Bidentate Phosphines Systems Used in the Copolymerization of Ethylene and Carbon Monoxide. Under the direction of Professor Maurice S. Brookhart.

Yih Hwai Lee, *Business Administration*, The Immediate and Delayed Effects of Advertising: The Role of Information Incongruency. Under the direction of Professor Kevin Keller and Professor Charlotte Mason.

John C. Leeds, *English*, Neo-Latin and the Vernacular in Scottish Renaissance Historiography. Under the direction of Professor Anne Hall.

David P. Lewis, *Biomedical Engineering*, Slice Selective Excitation of Stationary and Flowing Material in MRI. Under the direction of Professor Benjamin M.W. Tsui.

Barak Libai, *Business Administration*, A Two-Stage Model for the Diffusion of Innovations: The Case of Interactive Innovation's Critical Mass and the Dominant Design. Under the direction of Professor Charlotte Mason.

Tong Lin, *Chemistry*, Peptide Sequencing Using Multi-Stage Mass Spectrometry. Under the direction of Professor Gary L Glish.

Jeffrey Webster Long, *Chemistry*, Hybrid Redox Polyethers: Electrochemical Investigations in Molecular Melts of Metalloporphyrins and Metal Bipyridine Complexes. Under the direction of Professor Royce W. Murray.

Michael David Lord, *Business Administration*, Transfer of Knowledge within the Firm and Entry into New International Markets. Under the direction of Professor Richard A. Bettis.

Cynthia K. Louden, *Cirriculum and Instruction*, Comparisons between Block Scheduled and Non Block Scheduled High School Biology Classes. Under the direction of Professor P. B. Hounshell.

Carolyn Lukens-Olson, *Romance Languages*, Cervantes and Rhetoric: The Art of Speeches in Los trabajos de Persiles y Sigismunda. Under the direction of Professor Cesáreo Bandera.

Victoria Lynn Lyall, *Educational Organizations and Policy Studies*, Dissemination of Critical Approaches to Work Education. Under the direction of Professor David Clark.

Debin Ma, *Economics*, The Great Silk Exchange: Globalization of Trade and Technology in Historical Perspective. Under the direction of Professor Robert E. Gallman.

Hwong-wen Ma, *Environmental Science and Engineering*, Multimedia Risk Analysis and Systems Optimization in Environmental Risk-Based Decision Making: A Case Study of a Sludge Management Problem. Under the direction of Professor Douglas J. Crawford-Brown.

Susan Louise Maliski, *Nursing*, The Experience of Recurrent Breast Cancer: A Case Study. Under the direction of Professor Barbara Germino.

Vaishali Mamgain, *Economics*, Efficiency and Productivity Changes in Developing Countries. Under the direction of Professor William Darity Jr.

Pranab Kumar Mandal, *Statistics*, Topics in Stochastic Nonlinear Filtering. Under the direction of Professor Gopinath Kallianpur.

Farah S. Marasigan, *Operations Research*, A Framework for Computing Performance Measures on Planar Graphs. Under the direction of Professor J. Scott Provan.

Billy M. Marcum, *Business Administration*, An Empirical Investigation of Interest Rate Specification and Mortgage-Backed Security Pricing. Under the direction of Professor David J. Hartzell.

Elizabeth Roberta Strickland Markham, *Adult and Higher Education*, Preparation of Nurse Leaders to Address Management Functions Related to Job Satisfaction. Under the direction of Professor Ronald Wiegerink.

Michael Stephen Marion, *Statistics*, Asymptotics for Conditional U-Statistics with Applications. Under the direction of Professor Pranab K. Sen.

Shannon P. Márquez, *Environmental Sciences and Engineering*, An Environmental Decision Support System for Modeling Drinking Water Treatment and Waterborne Disease Risks. Under the direction of Professor Douglas Crawford-Brown.

Lu Ann Marrs, *English*, Hester Thrale Piozzi and the Art of Travel. Under the direction of Professor Albrecht Strauss.

Sarah Joan Marsh, *Business Administration*, Entry Mode Choice: Understanding the Role of the Firm's Resources and Capabilities and the New Market Environment. Under the direction of Professor Carl P. Zeithaml.

Michelle Lynn Mayer, *Health Policy and Administration*, The Effects of Medicaid Policies on Dentists' Participation. Under the direction of Professor Sally Stearns.

Matthew Joseph McAuliffe, *Biomedical Engineering*, A Segmentation Method Based on Object Width-Dependent Use of Scale: Application in Radiation Treatment Planning. Under the direction of Professor Daniel S. Fritsch.

Joseph Clair McClintock, *Psychology*, The Effects of the Parenting Alliance on Children's Adjustment. Under the direction of Professor Frank Floyd.

Jennifer Ruth McDuffie, *Nutrition*, Binge Eating in Obese versus Normal Weight Individuals. Under the direction of Professor Betty Kirkley.

Willie James McKinney Jr., *Environmental Sciences and Engineering*, Attenvation of Ozone-Induced Pulmonary Cellularity and Permeability: The Role of Interlukin-6 and the Acute-Phase Response. Under the direction of Professor Louise M. Ball and Professor Daniel L. Costa.

Andrew Paul Mills, *Philosophy*, Speakers, Hearers, and the Prospects of Linguistic Knowledge. Under the direction of Professor Dorit Bar-On and Professor Simon Blackburn.

Charles B. Moore, *Romance Languages*, Juan de Espinoza Medrano's Art of Preaching in La Novena Maravilla. Under the direction of Professor Rosa Perelmuter.

John Abbott Moss, *Chemistry*, Oxidation Catalysts and Molecular Assemblies in Electropolymerized Thin Films. Under the direction of Professor Thomas J. Meyer.

Patricia S. Moyer, *Curriculum and Instruction*, Control- versus Autonomy-Oriented Middle Grades Teachers Using Mathematics Manipulatives. Under the direction of Professor M. Gail Jones.

John Christopher Mullen, *English*, Thomas More and the Tudor/Stuart Biographical Tradition. Under the direction of Professor Anne D. Hall.

Beth A. Mulvaney, *Art*, Duccio's Maestá Narrative Cycles: A Study in Meaning. Under the direction of Professor Mary Pardo.

Jonathon P. Munson, *Computer Science*, Synchronization in Collaborative Applications. Under the direction of Professor Prasun Dewan.

Laura L. Murphey, *City and Regional Planning*, Making a Living in the Rain Forest: Determinants of Economic Status of Settler Households in Ecuador's Amazon. Under the direction of Professor Richard E. Bilsborrow.

Ginette S. Nachman, *Psychology*, Pessimistic Explanatory Style and Health Outcome in Women with a History of Severe Sexual/Physical Abuse. Under the direction of Professor Karen Gil.

John M. Nail, *Economics*, Changes in California Hospital Market Structure and their Effect on Prices and Profits. Under the direction of Professor John F. Stewart.

Laura Louise Neese, *Pathology*, Protein C Inhibitor: Structure-Activity Relationships and Pathobiological Aspects. Under the direction of Professor Frank Church.

Alice G. Nkhoma-Wamunza, *Information and Library Science*, Information Technology: Development and Policy Issues in Tanzania. Under the direction of Professor E. Chatman.

Catherine Awsumb Nelson, *Social Foundation of Education*, Judicial Mandates and Political Coalitions: Institutional Capacity in the School Finance Policy Process. Under the direction of Professor Richard Phillips.

David John Nordlander, *History*, Capital of the Gulag: Magadan in the Early Stalin Era, 1929-1941. Under the direction of Professor Donald J. Raleigh.

Patricia May Norman, *Business Administration*, Protecting Capabilities in Strategic Alliances: The Role of Isolation. Under the direction of Professor Richard A. Bettis.

Robert H. Oakley, *Physiology*, Expression and Function of the Beta Isoform of the Human Glucocorticoid Receptor. Under the direction of Professor John Cidlowski.

Julie Beth Olson, *Ecology*, Community Composition of Nitrogen Fixing Heterotrophic Bacteria in Microbial Mat Systems. Under the direction of Professor Hans W. Paerl.

Muthukrishnan Paramasivam, *Computer Science*, Instance-Based First-Order Methods Using Propositional Calculus Provers. Under the direction of Professor David Plaisted.

Irina Paraschiv, *Education*, Implementation and Outcomes of Training in Problem-Solving Skills for Adults with Mild and Moderate Retardation. Under the direction of Professor Rune J. Simeonsson.

Aluisio de Souza Pinheiro, *Statistics*, Multiresolution Analysis and Applications to Statistics. Under the direction of Professor Chuanshu Ji.

Hildete Prisco Pinheiro, *Biostatistics*, Modelling Variability in the HIV Genome. Under the direction of Professor Françoise Seillier-Moiseiwitsch.

Denise Victoria Powers, *Political Science*, The Psychological Basis of Democratic Transitions: Self and Politics in Poland. Under the direction of Professor Barbara Hicks.

Edward Leigh Powers, *Sociology*, Friendship Selection and the Acquisition of Sexual Experience: The Social Network Correlates of Delinquent Influence and Opportunity in Adolescence. Under the direction of Professor J. Richard Udry.

Kendrick Wheeler Prewitt, *English*, Though This Be Madness: Renaissance Quarrels with Method. Under the direction of Professor Reid Barbour.

Candace Marie Prusiewicz, *Environmental Sciences and Engineering*, Synthesis and Characterization of Nucleoside and Nucleotide Adducts of Cyclopenta [cd] Pyrene. Under the direction of Professor Avram Gold.

Ting Qian, *Cell Biology*, Mitochondrial Permeability Transition: A Mechanism of Hepatocyte Injury Induced by Ischemia/Reperfusion and Calcium Ionophore. Under the direction of Professor John J. Lemasters.

Myriam Quispe-Agnoli, *Economics*, Studies in Currency Substitution: Empirical Evidence in Latin America. Under the direction of Professor Stanley Black.

Srikanth Ramamurthy, *Computer Science*, A Lock-Free Approach to Object Sharing in Real-Time Systems. Under the direction of Professor James H. Anderson.

Annette L. Ranft, *Business Administration*, Preserving and Transferring Knowledge-Based Resources during Post-Acquisition Implementation. Under the direction of Professor Carl P. Zeithaml.

Leonard Paul Ray, *Political Science*, Politicizing Europe: Political Parties and Public Support for European Integration. Under the direction of Professor Gary Marks.

Thomas F. Reid, *Operations Research*, Admission Control for Transient Source Systems. Under the direction of Professor Vidyadhar G. Kulkarni.

Houston Bryan Roberson, *History*, Fighting the Good Fight: A History of Dexter Avenue King Memorial Baptist Church, 1865-1977. Under the direction of Professor Genna Rae McNeil.

Phyllis Woosley Rochester, *Health Policy and Administration*, Informal Support in the Home for Patients with Chronic Disease. Under the direction of Professor Arnold Kaluzny.

Pamela S. Rolandelli, *Curriculum and Instruction*, The Influence of Life Experience on the Beliefs of Preschool Teachers: A Comparative Case Study. Under the direction of Professor Richard Brice.

Michael Martin Rooney, *Chemistry*, Assessment of the Fibrinogen Binding Sites Involved in Clot Retraction. Under the direction of Professor Susan T. Lord.

Wayne T. Sanderson, *Epidemiology*, Lung Cancer Case-Control Study of Beryllium Workers. Under the direction of Professor Carl Shy.

Judy Powell Shaheed, *Special Education*, Gender Differences in Verbal Ability between African American Males and Females: A Meta-Analysis of Norm-Referenced Standardized Verbal Ability Test Scores. Under the direction of Professor Bobbie B. Lubker.

Susan Elizabeth Short, *Sociology*, Birth Planning, Sterilization, and the Care of Children in China. Under the direction of Professor Barbara Entwisle.

Tracey Honeycutt Sigler, *Business Administration*, The Empowerment Experience: A Study of Front-Line Employees. Under the direction of Professor Christine M. Pearson.

Ross Joseph Simpson, *Epidemiology*, Association of Premature Ventricular Contractions with Left Ventricular Mass. Under the direction of Professor Gerardo Heiss.

Robert Alan Spearman, *English*, Towards a Rhetoric of Youth: Readings in Augustine and Selective Medieval Narrative. Under the direction of Professor Joseph Wittig.

Stacie Summers, *Chemistry*, Surface Analysis and Imaging of the Adsorption and Chemical Reactivity of Polycyclic Organic Species on Environmental Particles. Under the direction of Professor Richard Linton.

Darlene Kimber Taylor, *Chemistry*, Polar Ordering of Rigid NLO Polymers. Under the direction of Professor Edward T. Samulski.

Charles Reid Tenney, *Biomedical Engineering*, Contrast Resolution of a Kinestatic Charge Detector. Under the direction of Professor Frank A. DiBianca.

Charles Dillard Thompson Jr., *Religious Studies*, Borders Bleed: Refugees, Repatriates, Religion and the Jacalteco Maya. Under the direction of Professor Ruel W. Tyson Jr.

Matthew Roscoe Thompson, *Economics*, Public Housing: A Hard Habit to Break? The Participation and Labor Supply Decisions of Public Housing Participants. Under the direction of Professor Thomas A. Mroz.

Judith M. Thorn, *Biology*, Src Associated Changes in the Cortical Cytoskeleton of the Xenopus Iaevis Oocyte. Under the direction of Professor Brian K. Kay.

Huicheng Tian, *Genetics and Molecular Biology*, Selection of RNA Splicing Enhancers from Pools of Random Sequences. Under the direction of Professor Ryzard Kole.

Stephen Andrew Timmons, *History*, The Revolution of 1688 in the West country. Under the direction of Professor Donald M. Reid.

Phong Thanh Tran, *Biology*, Biophysical Studies of Microtubules. Under the direction of Professor E. D. Salmon.

Marilyn Tseng, *Epidemiology*, Country of Birth, Food Intake Patterns, and Gallbladder Disease in Mexican Americans. Under the direction of Professor Robert S. Sandler.

Michael Aaron Turnage, *Genetics and Molecular Biology*, RNA Binding Domains of the Diosophila Melanogaster Suppressor of Sable Protein. Under the direction of Professor Lillian L. Searles.

Richard Woodward Vachet, *Chemistry*, The Kinetics, Energetics, and Mechanisms of Peptide Ion Dissociation. Under the direction of Professor Gary L. Glish.

Claire I. Viadro, *Health Behavior Health Education*, Sexually Transmitted Diseases and Married Hispanic Immigrants in North Carolina: An Exploration of Social Context, Within-Group Differences, and Methodology. Under the direction of Professor JoAnne L. Earp.

Michelle Ann Vincler, *Pharmacology*, The Impact of Ovarian Hormones on Nociception and Morphine-Induced Analgesia in the Rat. Under the direction of Professor William Maixner.

Vikram Madhusudan Vyas, *Environmental Sciences and Engineering*, Random Field Analysis of Spatiotemporal Environmental Processes. Under the direction of Professor George Christakos.

Jennifer Cole Waldner, *Chemistry*, Thermodynamic Analysis and Combinatorial Mutagenesis of Eglin c. Under the direction of Professor Gary Pielak.

Hua Wang, *Environmental Science and Engineering*, Contingent Valuation of Environmental Resources: A Stochastic Perspective. Under the direction of Professor Dale Whittington.

Catherine Ann Watkins, *Epidemiology*, Comparison of Clinical Oral Disease Measures and Perceived Oral Health Status among Community-Dwelling Older Adults. Under the direction of Professor James D. Beck.

Grace West Sheila, *Psychology*, Aerobic Exercise, Estrogen Replacement, and High Potassium Intake: Behavioral Buffers for Cardiovascular Stress Responses. Under the direction of Professor Kathleen C. Light.

Karin Beatrice Yeatts, *Epidemiology*, The Prevalence and Impact of Asthma and Wheezing in African American and White Children in Charlotte, North Carolina. Under the direction of Professor Carl M. Shy.

Karen Yeowell-O'Connell, *Environmental Sciences and Engineering*, Protein Adducts of the Epoxide Metabolites of Benzene and Styrene as Biomarkers of Exposure. Under the direction of Professor Stephen M. Rappaport.

Susan Yeyeodu, *Biochemistry*, The Procathepsin L Lysosomal Proenzyme Receptor is Enriched in Secretory Vesicles. Under the direction of Professor Ann Erickson.

Peter J. Yim, *Biomedical Engineering*, The Diastolic Shape of the Right Ventricle of the Heart. Under the direction of Professor Carol Lucas.

Valerie Lynn Zacny, *Microbiology and Immunology*, Epstein-Barr Virus (EBV) Replication: Modulation of Viral Functions by Cellular Factors and Novel Antivirals. Under the direction of Professor Joseph S. Pagano.

David l. Zercher, *Religious Studies*, Homespun American Saints: The Discovery and Domestication of the Old Order Amish. Under the direction of Professor Grant Wacker and Professor Laurie Maffly-Kipp.

Changyi Zhao, *Chemistry*, A Study of Si/SiO2 Interface Roughness Evolution During Microwave Electron Cyclotron Resonance Plasma and Thermal Oxidation Processes. Under the direction of Professor Eugene A. Irene.

Weifan Zheng, *Chemistry*, Development of Novel Computational Tools for Combinatorial Chemical Library Design, Database Mining, and QSAR Analysis. Under the direction of Professor Alexander Tropsha.

Cuiling Zhong, *Cell Biology*, Ras Transformation of Epithelial Cells: Rho, Contractility, Focal Adhesions, and Fibronectin Matrix Assembly. Under the direction of Professor Keith Burridge.

Doctor of Public Health

Edwin M. Craft, *Health Policy and Administration*, Diffusion of Innovations in Substance Abuse Treatment Information. Under the direction of Professor Paul K. Halverson.

Elizabeth Williams Eggleston, *Maternal and Child Health*, The Determinants and Effects of Unintended Pregnancy among Women in Ecuador. Under the direction of Professor Amy Ong Tsui.

Cynthia DeVane Fair, *Maternal and Child Health*, The Emotional, Behavioral, and Educational Development of Uninfected Children Living with Maternal HIV/AIDS and Substance Use. Under the direction of Professor Anita Farel.

Margaret L. McQueen, *Health Policy and Administration*, Interests in Evidence. Under the direction of Professor Arnold Kaluzny.

Marva Laverne Mizell Price, *Maternal and Child Health*, Generational Influences on Cervical Cancer Screening and the Capacity of the Public Health System to Assure Responsive Services. Under the direction of Professor Anita M. Farel.

Pauline Alison Russell-Brown, *Maternal and Child Health*, The Relative Influence of Husbands' Contraceptive Knowledge and Beliefs on Pregnancy Planning Behavior in Rural Nigeria. Under the direction of Professor Cecilia Zapata.

Pam Silberman, *Health Policy and Administration*, How Well Does the State of North Carolina Protect Consumers Enrolled in HMOs? Under the direction of Professor Thomas C. Ricketts.

Catherine Marie Tangen, *Biostatistics*, Innovative Strategies for Strengthening Interpretability of Covariance Analysis by Use of Complementary Parametric and Nonparametric Methods. Under the direction of Professor Gary G. Koch.

Doctor of Education

Teresa Herring Mozingo, *Educational Leadership*, Semi-Autonomous Work Teams: High School Possibilities. Under the direction of David L. Clark.

Joanne Chesley-Carter, *Educational Leadership*, School Dropout in Vulnerable and Resilient Youth: The Mediating Roles of Lifegoals and School Engagement. Under the direction of Richard C. Hunter.

The Honors Program at UNC-Chapel Hill

The University's Honors Program provides an especially challenging academic experience for its most able undergraduates. The honors curriculum involves freshmen, sophomores, and juniors in more than one hundred courses each year with topics ranging from Southern literature to Japanese culture. Senior students may participate in the Senior Honors Program.

Each year 250 students in fifty departments, curricula, and professional schools throughout the University work under close faculty supervision on a research or creative project leading to an honors thesis. Defended before a committee of the student's major department, the thesis forms the basis for graduation "with Honors" or "with Highest Honors."

Senior honors students have produced extraordinary work since the 1920s. For example, approximately half of biology honors theses result in scholarly publication.

Some students enter the program as first-semester freshmen. Others join the program in the spring of their freshman or sophomore years. Generally speaking, any rising senior with a 3.2 overall or better GPA is eligible to participate in Senior Honors. Honors courses are open to undergraduates with a B average.

The more than 1,000 students in the Honors Program each year include 600 freshmen, sophomores, and juniors, another 200–300 students taking an occasional honors course, and 250 seniors conducting thesis research.

UNC-Chapel Hill involves a higher proportion of undergraduates in honors than any other major research university in the country.

Students graduating with honors this year join more than 3,400 Carolina alumni who share the senior thesis experience. They prove that at Carolina the terms *undergraduate excellence* and *research* are not mutually exclusive.

Post Baccalaureate Professional Degrees • December 1997

The School of Law

Established 1843

Dean Judith Welch Wegner

Juris Doctor

Jeffrey Alan Bandini
Bonnie Lee Calhoun-O'Neal
James William Carter

The School of Medicine

Established 1879

Dean and Vice Chancellor for Medical Affairs Jeffrey L. Houpt

Doctor of Medicine

Thomas Edward Archie Jr.
Richard Bryan Bell
Marie Elizabeth King
Jennifer Stoddard Klenzak
Amar Babu Setty
Anne Boat Waters

The School of Pharmacy

Established 1897

Dean William H. Campbell

Doctor of Pharmacy

Shelli Denise Ambrose
Jayshree Madhusudan Amin
Marcus Craig Barrett
Marcy Lee Bell
Amy Bruce Bissette
Karen Bullock Brown
Amy Owen Campbell
Samuel Jason Couch
Crystal Ann Dancy
Tia Roselia Demby-Ulmer
Stephanie Leigh Dillard
Jennifer Lynn DiMeo
Leslie Campbell Driver
Abeer Mohamed Elkhouly
John Brian Ellington
Anna Dixon Garrett
Francoise Heidi Griffith
Bryan Austin Haas
Heather Lynn Hargrave
Erik William Hecht
Valerie Fleming Infinger
Gordon Robert Ingle
Leroy Arthur Kromis III
Timothy Francis Lassiter
Dionne Marie Lowder
Jason Bradley Lynn
Robert Marshall Malone II
Theresa Dail Malone
Julia Lynette Mann
Laurie Beth McElhone
Kristin Ann Merrill
Julie Ann Miller
Michael Joseph Miller
Neal Reston Nichols
Thomas Andrew Parmelee
Edna Turner Perkinson
Kirk Brian Price
Holly Renee Ramsey
Danielle Weeden Raymer
Melanie Suzanne Reece
Jodie Elizabeth Ritchie
Greg Miles Rochelle
Amy Denise Sauls
Melissa Eleanor Short
Robert Kevin Smith
Kendra Marlene Sutton
Elaine Yung-Chee Tse
Jennifer Ellen Vandergriff
Leisha Hoyland Walters
Lance Wheeler
David Wayne Wood Jr.
Donald John Wright

The First Carolina Diploma

In September 1796, Carolina student Davie Gillespie began working with a group of men to determine the Southern boundary of the United States. His instructors gave Gillespie a document to carry as proof that he had been a student at The University of North Carolina. The document, now in the Library of Congress, was signed by his professors and ended with the statement, "We thought it proper to give him this certificate."

The University's first graduating class in 1798 included Hinton James, the first student to enroll. Seven men received the first documents that by today's standards can be called UNC-Chapel Hill diplomas. One of the original diplomas is in the Southern Historical Collection in Wilson Library.

During the University's early years, Commencement at Carolina was a time for examinations and promotions to higher classes. There was a commencement, but no degrees awarded and no graduation.

Candidates for Graduate Degrees and Professional Graduate Degrees December 1997

The Graduate School

Established 1876

Dean Linda Dykstra

Master of Arts

Amy Carol Adams
Jason Daniel Arndt
Andrew Bernard Arnold
Elizabeth Jane Ashford
Christopher Lawrence Bartley
Martha Clare Bausch
Victoria Dodd Behrens
Frank Edward Bender
Harihar Prasad Bhattarai
Meredith Ami Bieber
Eric John Bloemeke
Amy King Bollinger
Elisa Bolton
Ann Elisabeth Brand
Amy Walker Brown
Julia Roper Bryan
John Keith Buhrmann
Brendan Francis Burke
Isabel Carolina Caballero
Shema Monique Carraway
Christy Shawn Carter
Leslie Marie Caster
Christopher Scott Chiron
Garrett James Christian
Blair Naylor Churchill
Bret James Cillessen
Paul Coe Clark III
Lynn Evette Clarke
Christine Lynn Clarkson
Adam John Constabaris
Charles Dohme Cook
David Cranford
Anastasia B. Crosswhite
Marianne Cutler
Patricia Jane D'Arconte
James Caldwell Davis
Jody Louise Davis
Helene Marie Defays
Audrey Jennifer Delong
Michael Paul Diatelevi
Caitlin Margurite Dixon
Gladys Rebecca Dobbs
Amy Terese Dye
Maxine Natalie Eichner
Sharon R. Eisner
Hagar Abdel Hamid F. El Hadidi
Amanda Brickman Elam
Gerald Andrews Emison
Paul Matthew Evans
Sarah Marie Fain
Kathleen Elizabeth Feeney
Sutton Crawford Foy
Lisa Maria Gagliano
Paul Bartholomew Garber
Gail Buxton Gellatly
Diane Samantha Gibson
Letitia Glozer
Debra Ann Gong
William Bernard Grannan
Jemma Price Grindstaff
Hongbin Gu
Chandra Yolanda Guinn
Elizabeth Ann Hancock
Timothy D. Hancock
Jurgen Gunther Henn
Sara Elizabeth Henninger
Lydia Claire Hoffman
Robert Stockard Horton
Jeffrey Brisbin Howden
Albert Michael Iacocca
Deborah Anne Jefferies
David Allen Jewell
Hope Waverly Johnston
David William Jordan
Celeste Dayle Joye
Frank Fuller Judd Jr.
Young-Sook Jung
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Thomas Leon King
Adrienne Puckette Knowles
Daniel Y. Kono
Jason Matthew LaTouche
Karen Leanza
Allison Ann Leclerc
Kerry Ledoux
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James Scott Littlehale
Kim Lorain Logan
Jeffrey Charles Lowrance
Howard Ray Lucas Jr.
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Deepa Savitri Manandhar
Erika Lyn Manning
Cecile Francoise Masters-Moore
Joel Stefan Mauger
Etta Darleen McCullen
Julie Lee Mell
Kari Ann Meyer
Keith Andrew Meyerl
Kelly Lynn Mieszkalski
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Drake Morgan
Kathryn Jane Morris
Christina Jean Nelson
Cristina R. Nelson
Lauren Moore Nelson
Kathryn Doris Newfont
Thomas Aldridge Newsome Jr.
David Hall Newton
Shari Ann Novek
David Charles Nowotny
Kevin Timothy O'Sullivan
Jeremy Joshua Ofseyer
Benjamin Franklin Ormand
Stacy Leigh Otto
Julie Anne Palich
Carleton Ashcroft Palmer Jr.
Gregory Robertson Palmer
Louis Kendall Palmer III
Andrew Fowler Parker
Reggie Leon Pearson
Marta Nellie Perez

James C. Murphy

Choosing the School of Information and Library Science was a wise decision for me, not only for the high quality of instruction and for the knowledge gained, but also for the career opportunities it has brought.

Jalie Noel Phifer
Paul E. Presler
Stephen Rafferty Jr.
Suzanne Maria Ramirez
Lisa Jo Rathert
Michael Raymond Ridge
Christopher Michael Riser
Deborah Agnes Robertson
Erika K. Rockett
Christopher Adam Roddenberry
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Tricia Deana Saulnier
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David John Scott
Jan Alison Sedway
Elizabeth Shaw
Deepak Ramachendra Shenoy
Carisa Renae Showden
Christopher Jon Simon
Tina Louise Smith
Julia Beth St. John
Carla Gayle Stec
Christina Maria Strafaci
Patricia Suppes
Estelle Taraud
Christopher Reich Taylor
Fissehaye Tecle Tesfaindrias
Caroline Elizabeth Thomas
Colleen Mary Thomas
Geriel Timm Thornburg
Emily McKnight Townsend
Jonathan Andrew Tresan
Anne Shore Tucker
Karin Lynne Twilde
Melissa M. Twomey
Sayoko Uesugi
Sean Patrick Uyehara
Robert Mark Vanderbeck
Stanslav Vaeriyevitch Vasiliev
Todd David Verdun
Jennifer Grimes Webb
James Earl White
Jon Christopher Wiebel
Paul Edward Wilkinson
Tammy Lynn Wilmesherr
Carole Jeanne Wilson
Alicia Lynn Wise
Elizabeth Fields Workman
Chin-Lung Yang
Kenneth Joel Zogry
Rebecca Anne Zulli

Master of Science

Devon Loeffler Allen
Matthew C. Allgeier
Andrea Anita Boright
Angela Dawn Bray
Corey Louis Brown
Floyd Andrew Bullard
Hailiang Cai
Chao-Jung Chien
Erika Jeanne Clesceri
Daphne H. Da
Tejas Arvind Desai
Marla Christine DeLuca
Delton Wade DeVose
Tori Lynn Elliott
Tellis Burthorne IV Ellis
Brian Lamar Erman
Ali Reza Faiz
Tianli Fan
Xiaoyong Feng
Leslie Brian Fleming
William Carter Franklin
Michael Allen Getter
Tuell Coleman Green
Vickie Griffin-Coley
Joy Leta Hall
Caroline Patricia Hamling
Alina Haruthunian
Russell Wagner Helms
Colleen Marie Hines
Jeffrey David Hole
Jason Travis Howard
You-Jou Hung
Barbara E. Hutchens
Diana B. Johannsen

Every effort has been made to ensure the accuracy of this program's content. Any omissions or errors are unintentional.

Jon Edward Kallen
Stephanie Rebecca Kincaid
Cynthia Tracey Kraft
Emily Jean Larson
Keri Beth Leach
Jia Li
Qian Li
Boyang Liu
Jianhua Liu
Manuel Lopez
David Patrick Luebke
Zia Mahmood
Jean Ellen Malchow
Daniel Peter Malone
Joseph Vernon Mauney
Clifford Ray McCrary
Ross Patrick McKamey
James Walter McLean
Trisha Chilcott C. McNeer
Paul Mark Baco Medina
Colin Andrew Mellor
Sarah Louise Meyer
Craig Matthew Miller
Jonathan Turner Moody
Robert Anthony Moran Jr.
Lawrence Joel Moray
Ritu Nagpal
Peter Arthur Nee
Hong Ni
Tara Marie Nixon
Sean Michael O'Brien
Edward Alan Overton
Oliver Pau
Melissa S. Payne
Benjamin Lewis Peierls
Sylvia Lynn Pool
Suraj Raghavan
Sridhar Ramachandran
Ranjani Ramakrishnan
Glenn Curtis Ratcliff
Allison Jean Reed
Mark C. Rendina
Todd S. Roessler
Kristin Ruth Rogers
Zeng Rong
Mihail Radu Rosu
Medha Rahul Sasane
Amy Elizabeth Seal
Michael David Shafer
Jie Shang
James Michael Sinnott
Brian Walker Smith
Candyce Lynn Sparks
Donna L. Swahlan
Tamara Beth Titcomb
Yin Fai Amy Tsai
Kevin Douglas Veal
David Blaine Wagoner
Tramaine Walden-Darby
Fei Wang
Daniel Joseph Watkins
Sharon Mary West
Cathy Faye Wicker
Anita Araba Bordoh Williams
Dongxiang Wu
Bin Xie
Jing Xu
Ya-Ching Yang
Rudolph Paul Zalesak

LaTesha Velez

I was terrified at the prospect of transferring from a university in Germany with 150 students to Carolina. I found a home in Chapel Hill and a family in Phi Sigma Pi National Honor Fraternity. I found intellectual stimulation and sheer pleasure in my classes as well as the various performances and speakers that I've seen. At Carolina I was not lost, I was found.

Master of Public Administration

Edwin Hassel Daniels Jr.

Master of Regional Planning

Jeffrey Alan Bandini
Ann Eberhart Goode
Christopher Scott Hermann
Kristin Komives
Grace Jendrasiak McLean
Heidi Tolo Merkel
Sydney Paul Miller
Elisabeth Anne Morgan
Diana Hope Sokolove
Francesca Sophia Turchi

Master of Recreation Administration

Cari Elaine Autry
Cynthia Gwendolyn Burnette
Jennifer Adams Endsley

The School of Education

Established 1885

Interim Dean William I. Burke

Master of Education

Christopher A. Bates
Caroline Elizabeth K. Butler
Stacey Leigh Collins
Jodi Leigh Dixon
Samantha Loetman
Sara Marie Mankinen
Jennifer Rebecca Moore
Felisa Ann Niedel
Jenny Rebecca Norfleet
Reena Kara Schellenberg

Master of Arts in Teaching

Maria Davidson DePalma Collins
Wade Grayson Hall
Shireeanne Michelle Long
Sheba Willette Lowe
Letitia Renee Moultrie
Hilary Ambrose Pendleton
Shannon Christian Scruggs
Carrie Wehmann Williams

The Kenan-Flagler Business School

Established 1919

Interim Dean John P. Evans

Master of Business Administration

Susan Kathleen Acker
Caglan Mehmet Aras
Douglas Edward Banks
Guy D. Billoud
Brian James Burke
Cara Fayme Gavin Callanan
Drake J. Craig
Robert Curtis Crigler
Cheryl Buffington Dowdall
Rajavel Ganapathy
Eileen E. Groblewski
William Scott Hogan
John Francis Killela
Elizabeth M. Koszalka
John M. Krupicka
Robert Andrew Lovas
Robert Allen Martin
Joel Robin McLaughlin
Leslie Arthur McSpadden
Robert Francis Mello
Gary Louis Monroe
Amit Nagar
William Albert Paulus
Alvin Ward Peacock Jr.
Kimberly Jo Reed
Tomas Bienvenido Reyes
Jennifer Joan Roberts
Brent M. Sheerer
Drew Frederick Smedley
Melinda Sue Storrie
John Donald Summers
Doc Jones Thurston III
David Frederick Todd
Stephane F. Toutain
Brooke Elaine Triplett
John Henry Warren III
Wendy Carol Winslow
Kenneth George Wood Jr.

The School of Social Work

Established 1920

Dean Richard L. Edwards

Master of Social Work

Susan Jean Auger
Glenn David Heron Backes
Karen Ferguson Birkholz
Elizabeth Warren Bordeaux
Stephanie Jo Botsford
Paul Edgar Castelloe
Siobhan E. Colgan
Kathy Painter Johnson
Gaye Speaks Mize
Giselle Heavey Powell
Lori Anne Rolleri
Lanya Suzanne Shapiro

The School of Information and Library Science

Established 1931

Dean Barbara B. Moran

Master of Science in Information Science

Maria I. Boitchouk
Donald Jay Cervino Jr.
Richard Albert Clark
Erika Sue Grams
Christopher Dana Gwyn
Kirsten McBride Ioos
Kevin Crouse McAllister
Matthew David Mielke
James Clarke Murphy Sr.
Margaret Elizabeth Peacock
Danqi Song

John Jeffrey Westerhoff
Carole Adele Williams

Master of Science in Library Science

Judith Michelle Austin
Deborah Kay Balsamo
Amie Louise Barto
Sharron A. Bortz
Jennifer Marie Broadbent
Elizabeth Ward Broyles
Steven Arthur Case
Kimberly Lynn Clarke
Kevin Dean Farley
Dare Hester Fortner
Mary L. Frey
Burnette Louise Green
Lisa T. Greenbaum
Kimberly Jo Hoover
Kimberly Ann Kingsley
Barbara Katherine Kirch
Mark Minoru Koyanagi
Theresa Elizabeth Lynch
Kristin Tromba May
Sarah Elizabeth McCleskey
Manuel Michael Michalowski
Sara Mackay Morrison
Meghan Deidre O'Shaughnessy
Judith Walker Packer
Megan Elizabeth Phillips

Certificate of Advanced Studies in Information and Library Science

Frank Lawrence Clover
Krista Ann Eberl
George William Huntley

The School of Public Health

Established 1939

Dean William L. Roper

Master of Public Health

Leslie F. Alexander-Alkins
Glenn David Heron Backes
Eleanor Blair Benson
Ann M. Buchanan
Dawn Paulette Streater Burtt
Kathy Cahill
Gregory P. Campbell
Wanda Jones Cecil
Srobona Tublu Chatterjee
Pooja H. Chugh
Rodney Clark
Siobhan E. Colgan
Paula Elizabeth Conaway
Tamera Coyne-Beasley
Donna Elizabeth Davis
Luther Joshua Davis III
Patricia Devine
Elizabeth Ellen Dixon
Nishan Hesiri Fernando
Stacy Lynn Ferrari
John R. Feussner
Suzanne Marie Feutz
Amy Bingham Fowler
Katrina Diane Gay
Ann Jadwin Gerhardt
Greg M. Gertz
Gabriel Gomez
Deborah Lynn Grammer
Karin Halina Greiser
Deborah Williams Hamby
Joan G. Harper
Stephanie Larae Howard
Scott Edward Joens
Melissa Kyle Kaluzny
Valerie S. Koscelnik
Brett Michael Macaluso
Elizabeth P. Mahanna
Manzoor Ahmed Majumder
Diane D. Marshall
Rhonda Michelle McDonald
Susan Rupp Mims
Leslie Montana
Lorena A. Montefusco
Dominic T. Moore
Teresa Laster Morton
Denise Nadeau
Alan Guy Parham
Katherine Michelle Parkman
Mary Stumpf Pesch
Maurice Benjamin Popkin
Jeffrey C. Powell
Shiny Purushothaman
Chesley Lucas Richards Jr.
Paul Vincent Rocereto
Lori Anne Rolleri
David Lee Rust Jr.
Michael J. Sage
Elizabeth Anne Saiki
Lanya Suzanne Shapiro
LaDawn Mae Shuman
Meredith Ann Smith
Valerie Glynellen Smith
Cora D. Spaulding
Susan Elizabeth Steck
Mandi Elise Summers
James Harold Szymeczek
Sheryl Denise Taylor
Adrea G. Theodore
Barbara Thorand
Lisa Lynn Tobe
Rebecca Green Travis
Shoba Bala Viswanath
Lila Herndon Vizzard
Julie Mary Walenta
Janice E. Williams

Master of Science in Environmental Engineering

Morris Howard Arthur
Janeen Morning Baldridge
Eric James McCann
James Arthur Riddick Jr.

Master of Science in Public Health

Susan Lynn Barbee
Peiffer Allen Brandt
Michelle Brasure
Steven Juilliard Carr
Shana Chase
Richard Charles Clancy
Latonya Wyvette Danzy
Andrea Elizabeth Davis
Michael Joseph Holland
Wei Jin
Sophie Vanessa Newland
Eric Edward Rainey
Wiwan Sanasuttipun
Mark Richard Schulz
Andrew Gerson Silver
Jenique Colette Thompkins

Master of Healthcare Administration

Rana Zahoor Ahmed
Thomas Harper Auer
Vicki Lynne Goodman
Marya Suzanne Gwyn
Herbert J. Hames Jr.
Bhaktavatsala Jayakrishnan
Janice Faye Olson
Kevin Wayne Orndorff
Donna Coker Shane
Etta Porthe Sharfuddin

The School of Nursing

Established 1950

Dean Cynthia M. Freund

Master of Science in Nursing

Frances Anderson Ballard
Liliana Donoso Berman
Anita June Lanier Brown
Angela Bullock
Gwendolyn Alpha Chancy
Sherri Lee Coble
Teresa Noonan Davis
Kimberly Dawn Donovan
Margaret Lorenzen Eren
Nansi Meg Greger-Holt
Dawn Renee Hurst Hill
Li-chuan Christina Hung
Susan Lynn Kilts
Frank Douglas Moore
Valerie Idada Parker
Julia Hardison Pjetraj
Louise Ann Powell
Nancy Grant Register
Tamara Forrester Strickland
Barbara Marie Suplit

Anna Lionello

What is the Carolina experience? It is truly the most wonderful and unforgettable experience. It is the gaining of everlasting memories and friendships; gaining wisdom and knowledge not only from members of faculty, but from students as well; and gaining an open mind thanks to the diversity of our campus. Most of all, it is gaining confidence that helps one face what the rest of the world has to offer.

Candidates for Baccalaureate Degrees • December 1997

The College of Arts and Sciences

Established 1795

Dean Risa I. Palm

Bachelor of Arts

Afro-American Studies

Nachael Lynn Bright
Kynita Nicole Stringer

African Studies

Allison Gale Ward Gunter

American Studies

Ashley Dawn Burleson
Robert Gary Phillips

Anthropology

Molly Nixon Barnes
Angela Bennett +
Wilkie Murray Cheek Jr.
Elisabeth Anne Gotwals *
Russell James Greene
Sarah Gevene Hopton
Heather Lea McDonald
Dwayne Everette Muhammad

Art History

Jessica Martin Albert
Pamela Fletcher Hassenfelt
Jason Michael Seitz
Kishie Clay Thorp *

Asian Studies

Shawn Geoffrey Abernathy
Ashely Weldon Bondurant
Kerry Anne Corcoran
Matthew Stephen Parrish
Theodore Nicholas Rocz Jr.

Biology

Matthew Robert Anders
Detrius LaShaunda Anderson
Hayley Bergmann
Elizabeth Nicole Bridges
Amy Marie Clemmons *
Lakeshia Lynnette Clemmons
Ian Adam Daunheimer
Matthew Jonathan Douglas
Bryan Scott Edmiston
Colleen Anna Frenzel
Rodney Tamaar Funderburk
Elizabeth Susan Geisler
Tara Bridgette Henderson
John Russell Hoyle
David Rittenhouse Kuhn Jr.
Gary William Lambert
Anthony Roskoski Lazaro
Linley Beauvais Lyerly
James Thorson Mahaney
Kari Jean McKeirnan
Jason Georges Nakhle
William Franklin Pendergraft
Jeffrey Neal Scott
Nicholle Hae Yun Shon
Jacqueline Nicole Smith
Karly Lyn Sukut
Hiba Tappouni
Amanda Leigh Thornton
Shawn C. West

Chemistry

Alicia Hope Barefoot
Chad Steven Berry
Kenneth Matthews Carroll II
Kavya Gopal
John Edward Holman II
Chad Ryan Marion
James Washington Matthews
Shama Pathan
Tracy Marie Potts
Jason Mark Roberts *
Carolyn Batchelor Suitt
John Alexander Suszko
Allison Nicole Wilson
Matthew Wojciechowski

Classics

Trig Linden Elstran
Geri M. Greenspan *+

Communication Studies

Britt Holland Armentrout
David Henry Bangert
Dawn Racheal Barnett
Kristin Ann Baugh
Michael Thomas Baxter
Stacey Shira Berger
Terry Michael Billups
Ann Michele Bishop
Molly Jo Black
Brian Wilson Braswell
Julie Michelle Brewer
Omar L. Brown
Tasha Marie Carmon
Jonathan Daniel Cline
Michelle Anita Crutchfield *
Jennifer Laura Davis
Mary Janine Monroe Dease
Bradford Christian DeBose
Colleen Flynn Driscoll
Cara Elizabeth Dunaway
Gregory Lamont Ellis
Bellino Maurice Evans
Susan Gail Gottlieb
Kenneth Michael Gregory Jr.
Jennifer Lynn Halter
Heather Kristene Hilton *
Jason Douglas Hinton
Kristopher Carr Hixson

Thamas Hongladarom

Here is advice from a Carolina friend...understand that friends come and go, but with a precious few you should hold on. Work hard to bridge the gaps in geography and lifestyle because the older you get, the more you need the people who knew you when you were young.

Michael Edward Hobgood
Chad Anthony Johnson
Marcus Edward Jones
Ellanore Sheneane Kelly
Benjamin Edward Lepow
Holly Marie Lookabill *
Matthew Ryan McKaig
Brian Francis Mehm
Jonathan Gary Mills
Kimberly Nichole Overton
Kristie Marie Patton
Amy Elizabeth Pearman
Mark Wood Quincy
Michael Lonny Rhyne
Julie Ann Roberts
Uconda Chevette Ruffin
Lucinda Ree Saunders
Matthew Aaron Slebos
Christopher Matthew Spencer
Julie Ann Spencer
Amy Perdew Stevens
Erin Hope Stinson
Bryan Lamar Stover
Margot Irene Taylor
Russel Thad Thomas
Merrill C. Turnbull
Scott Thomas Utley II
Jonathan Howland Walker
Marcus Leo Ward
Candace Nicole Watson
Amber Nicole Willey
Joshua Stephen Williams
Daniel Lee Alexander Yoder

Comparative Literature

Alyse Hamilton Harral

Dramatic Art

Julie Marie Finefrock +
Caroline Ross Mayer
David Michael Rogers
Joshua Allen Thompson

Economics

Maria Charalambous Anastasiou
Aaron Lee Barnes *
Joseph Haywood Biggs II
Richard T. Brown
Xavier K. Chakravarti
Derek Samuel Culp
Vishal Kumar Daftuar
Rashard Irving Gathers
Michael Shindell Geter
Thamas Hongladarom *
Jimmy Michael Jones *
Curtis Lee Kamp
Alison Beth Lakritz
Jean-David Henri Larson
Gene Allen Lovette Jr.
Robert Timothy Paschal
Adria Grace Pinson
Jason Andrew Pittman
Jeffrey Allan Plemmons
Jeffrey Scott Portis
Richard Cole Purcell
Delano A. Rankin Jr.
Keith Anthony Roten
Emily Katherine Saunders
Jennifer Elizabeth Sessoms
Christanna Renee Springs
Marcus Cordell Stokes
Victor Moises Suarez
Daniel Lawrence Thompson
Nicholas Louis Verano
Bryce Lafayette Wall
Michael Jason Wall
Dwight Jensen Wells
Jeffrey William Wilson

English

Dennis Norbert Allman
Andrea Elizabeth Bachl +
Gordon Bryant Barber
Joshua Lee Beeker
Brian H. Benton
Joyce Renee Berrong
Lee Erin Brinson

* Indicates probable candidates for degrees with distinction or highest distinction based on GPA going into final semester. + Indicates Honors recipients. ++ Indicates Highest Honors recipients.

Sean Leigh Chapman
Samuel Jason Clemmons
Douglas Carlyle Crapo
Jeanette Marie Danson
Kathryn Leigh Davis
Warren O'Sullivan Decker *
Spencer S. Deering
Joshua William Eaton
Fotini Nikolaos Giannoulis
Megan Margaret Griffiths
Daniel Eugene Grigg
Jeanine Ann Gunther
Katherine Ryian Hilkey
Cheryl Alison Johnston
John Butler Justice *
Melissa Dawn King
Robert Hairston Kluttz Jr.
Kerri Elizabeth Lamb
Keith Pettey Lander
Freida Lynn Lashbrook
Justin Ansel Marks

Kelly Pfaff

The years I've spent at Carolina are ones I will always treasure. I have made great friends, established lifelong contacts and received one of the finest educations in the country. Walking across this campus last semester made me realize how much I will miss the Carolina Blue; however, I have gained the knowledge and a sense of individuality I will need to guide me through the challenges of life that lie ahead.

Stewart Kirk Materne
Lauren Jean McGrath
Victoria Linda Meiswinkel
Justin Steven Moll *
Gina Elizabeth Opdycke
Patrick Michael Paus
Gerald V. Sievers
Jonathan E. Speight
Johanna Ashley Stokes
Sherri Ann Stone
Kyle Bethany Thomas
Kari Ann Thorsvold
Tamarind Nicole Tucker
Latesha M. Velez *
Denise Elizabeth Williams

French

Margaret Bowers Barrett
Louise Brunel Gordon
Meghan Eleanor Needham

Geography

Don Columbus Carson IV
Elizabeth Ann Crews
Joseph Samuel Davis
Jessica Dawn Hartzell
Jonathan Lance Herndon

Geology

Robert Jason Conner

History

Benjamin Clampitt Alpers
David Dixon Alt
Sabrina Chiffon Amerson
Mira Margaret Boone *
Christopher Thomas Bowling
Matthew L. Boyatt *
Hobson Brown III
Christopher Wayne Caudle
David Wayne Cherry
Andrew William Cunningham
Nathaniel Lee Evans
Steven Christopher Fear
Elizabeth Ruth Feaster
Rebecca Leanne Greene
Adam Ian Herscher
Alicia Maria Junco
Douglas Ian Lawrie
Franziskus Lepionka
Robert David Maresca
Kelly Ann McCall
Malcolm David Meyer
Ashley Noelle Miller
Julia Bryson Mills
Bernard James Owens IV
Andrew Ralph Pearson
Alex Wesley Rickard
Tyrus Lane Ross
John Michael Savage
Matthew Frederick Schmink
Howard David Speer III
Christopher Scott Synowiez
Andrew Marshall Vickery
Shannon Irene Vise
Gregory Keith Whitaker
Lindsey Taylor Williams
Candice Sylvette Wooten

Industrial Relations

Denis James Barrier
Stephen Michael Bonack Jr.
Richard L. Crutchfield Jr.
Guy Benjamin Eubanks
Eric Alan Ferris
Jonathan Scott Greco
Richard Jason Hall
Amy Leigh Howard
Jason Hale James
James Denver Johnson
Barnett Crowell Lineberger IV
Thomas Wilson Lloyd
Carl Chadwick McIntyre
Adam Ray Moriarty
Richard Darrell Parker
Brandon Shane Parrish
Elizabeth Ann Peatross
Michael Lewis Ritchie
Ryan Gunnar Sheets
Karen Elizabeth Shuster
Hector Osborne Suarez
Jeffrey Dale Williamson

Interdisciplinary Studies

Jeannie Garten
Adam Reynolds Harrington
Geoffrey Miles Manaugh *++

International Studies

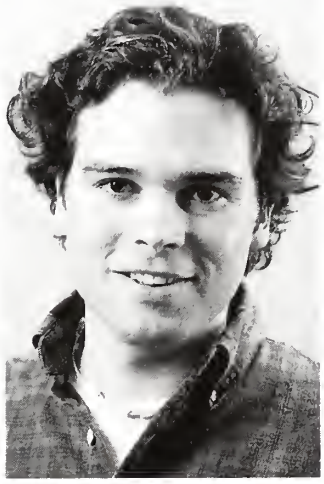
Karen Michele Anderson
Jennifer Terese Avent
Carlar Joyce Blackman
Jeremy Allan Blume
Jana Nicole Christesen
Elissa Anne Curry
Nakia Monique Elliott *
Marcelle Lynne Hopkins
Amy Han-Wen Huang
Kevin Barlow Jenkins
Juanita O'Brien Johnson
Kristin Janette Klein
Anna Maria Lionello
Molly Augusta Nagel
David Eric Pfifferling
Benjamin Groves Powell
Julie Christine Price
Eric Scott Weiner
Catherine Michelle Weston

Latin American Studies

Sandra Ellen Cox
Kelly Courtney Drescher
Claudius Stedman Morris IV

Leisure Studies and Recreation Administration

Daniel Garith Allred *
Kathleen Marie Avitt
Richard Lewis Bradley
Marta Michelle Deaton
Deborah Lee Goldfarb
Cari Beth Goodwin
Charlotte Susanne Lamb
Charlotte Leigh McClumpha
Karen Rebecca Morgan
Paige Ashley Rhyne
Trevor Kolby Setzer



J. Michael McWilliams

At first, Carolina is like this big bear with big claws, and as a freshman, you are like this little bunny cowering in the corner of the Pit getting beaten around by things like registration. But then you wise up. You stand up to the bear, show him your teeth, sink 'em in, and sap the bear of all he knows.

Jonathan Craig Sheiman *
Amy Elizabeth Subber *
Lisa Rena Yancey

Linguistics

Larissa Rachelle Chen *

Mathematics

William Clyde Cash
Robert Anthony Hedinger
Michael Alan Klein *
Michael Ernest Mittendorff
Mark Joseph Wilson *

Music

Laurie Anne Bailey *
Edward Alexander Crawford
Thomas Leo Finigan
Julie Kay Foldesi
Jon Patrick Hartsfield
Joanne Hsu

Peace, War, and Defense

Johnny Allen Joyner

Philosophy

William Brantley Aycock II
Jennifer Elizabeth Ingram
Michael Mayer Lazin
Matthew Edward Leggett
Thomas Chambers Morphis Jr.
Christian Cox Polychron *
Ashley Randall Sronce
Nathan Robert Williams *

Physical Education

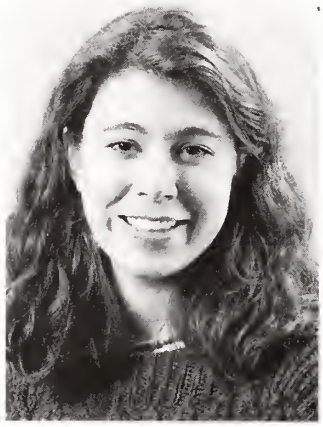
Reginald Irvin Alston
Traci Ellen Avent
Christy Leigh Ball
Jesse Aycock Blackman Jr.
Jennifer Lynn Bradshaw
Curtis Alan Brown
Matthew James Coppedge
Karen Marie Craddock
Jodi Michelle Dellinger
Dimitry Drouin
Shawn Michael Fahey
Franklin Simpson Fisher
Heather Renee Hamilton
Willonda Denise Hunt
Rebekah Sharray Lawrence
Christian Wayne Loftis
Reginald Jerel Love
Della Latrease Marrow
Christopher Edward Mueller
Ashley Christine Pace *
Michelle Pye Porter
Matthew James Roberts
Jamie Lynn Shaver
Noelle Lynne Slusser
Tammy R. Smeltzer
Jeffrey James Strenk
Jonathan Joseph Taliercio
Melanie Beth Tucker
Lisa Rose Wenzel

Physics

Michael George Neece
Yashar Rafi

Political Science

Michael Jack Abensour
Roy Edward Allen
Sonya Arnesen
William Edward Ayers IV
Christopher Randolph Barnette
Tonya Lynn Carinelli
Kellam Tobin Cavanaugh
Sherrill Kathleen Chavis
Gregory Martin Craft
Lori Elizabeth Crawford
Sharon Ann Curlee
Lynette Mincey Dean-Johnson
John Elliot Dervin
Julian Wayne Dixon
Michael Leo Farmer
James Fletcher Fuller
Aaron Christopher Gard
Daniel Jason Green
Scott A. Griffin *
Michael Guzek
Walter Benson Harmon
Leslie Cooper Harrell *
Jennifer Erin Harrington
Terrie Haydu *



Alyce Johnson

My experience as a music major at Carolina has been broader than I could have imagined. This school has so much to offer. As long as you are willing to get involved, you are bound to become a more well-rounded and knowledgeable person.

Loren Kimberly Johnston
Jason Michael Jonczak
Nikki Alison Luchnick
James Robinson Lunsford
Peter Michael Murphy
Kevin Darnell Oliver
Charles Ray Pugh
Tanya Michelle Riemer
Amina Saeed
Craig Alan Shipman
Brad Edward Short
Brian Louis Stekloff *
John Jason Stephens
Kathleen Peoples Tanner *
Jack O'Neal Wiles
Karen Marie Willard
Britt Franklin Wright

Psychology

Joel Andrew Alley
Gabriel Tzvi Lederer Gibel Azoulay
Stacey Lynne Blazo
Wallace Daniel Bowling III
Brooks Gideon Brown IV
Gina Marie Camisa
Tate Cheek
Elaina Lethea Clark
Tasha Benita Clay
Jason Todd Clemmer
Kum Hui Conners
Thorne Bradford Daubenspeck
Sebastian Isaiah Del Cid
Nicole DeVoursney
Lauren Marie Dunn
Jason Andrew Garland *
Lara Jane Gibson
Amy Lanette Gillis *
Arthur Lloyd Granger
Shane Finley Hartman
Andrea Michelle Herman
Ellen Claire Hester
Richard Thurston Howard Jr.
Andrew Rice Kendall
Stephenie Thomas King
Kristin Danielle' Kushmider
David Wei Lam
Leah Cameron Lashley
April Elizabeth Little
Glendon John Lowe
Caryn Brooke Madison +
Nicole G. Major
Terra Henri Mangum
Danielle Jena Martucci
Christine Minisce May *
Dawanda Earlnette McAllister
Moniquè LaSae Merriweather
Julia Morehouse Milton
Vladislav Miransky
Behrad Moshfegh
Mark LaFollette Nicholson
Ashley Kristin O'Hara
Anne Colleen O'Rourke
Kristin Ann Pallister
Robert Chadwick Parks
Amy Jo Patrick
Takeshia Denae Quick
Michael Robinson Ragsdale *
Joanna Eileen Sahm
Katharine Ann Saputo
Brett Simon Shapiro
Shoshana Sawan Silverman *
Eamon Thomas Sisk
Wende Lynne Smith
Cynthia Barrows Stahoviak +
Richard Nicholas Stilitino
Shelley Ernette Talbert
Alison Taub
Kelly Lynn Toland
Jane Elizabeth Twamley
Bounthani Vongxay
Lonn Weissblum *++
Traci Lynn Wike
Allison Nicole Witt
Wendi Lynn Yokeley
Jeanie Yu

Public Policy Analysis

Eliot Grayson Jones
Melissa Anne LeRoy
Shani Siti Smart

Radio, Television, and Motion Pictures

Tony Orlando Johnson

Religious Studies

Whitney Ticeman Brooks
John Thomas Gleespen II
Stacy Erin Hermelin

Russian and East European Studies

Brian Joseph Kilroy

Sociology

Peter Myers Bolen
Mark Gerner Caprise
MaryFrances Coleman
Jonathan Charles Linton
Mary Miller Russ
Brian Eugene Simmons
Jeffrey Bernard Walker
Lalecha Jacinta White
Jamie Elizabeth Young

Spanish

Laura Ann Griffin
William Warren Prickett
Joy Uvette Rollins

Speech

Byron Jermaine Thomas
Vickie Carol Bain Wilder
Brenda Denise Williams

Studio Art

Isabel Fe Finch
Courtney Lyn Fitzpatrick * ++
Mary Lindsey Lawrence

Women's Studies

Katherine Elizabeth Coward
Amanda Lynn O'Briant *++

Bachelor of Fine Arts

Anthony Michael Cervino
Evie Watts Ward *

Bachelor of Music

Alyce M. Johnson *

Bachelor of Science in Administration of Criminal Justice

Stephanie Ann Mercier

Bachelor of Science in Applied Science

Clark Douglas Harter

Bachelor of Science in Biology

Steven Craig Alexander *
Matthew Forest Appenzeller
Judith Brooke Barham
Paul Timothy Bertram
Christopher Howard Blum

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Adam James Budlong
Christopher Michael Cornish
Anissa Gail Cronenberg
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Michael Eugene Durbin
Judith Diane Easterbrook
Brenda Laverne Franklin
Maria Elizabeth Fusco
Andrew Christian Geer *
Jeffrey Louis Giering *
Kirk Allan Gilligan
Colby Leanne Godbold *
Crystal Elaine Gordon
Scott Christian Harrington
Michael George Hawley +
Sarah Haydu *
Damon Joseph Haynes
Alvin Duane Hearring
Kris W. Hergert
Michelle L. Hernandez *++
Stephanie Lynn Hicks
Dawn Adrienne Hower
Reem Tamim Hussam
Timothy David Jones *
Brielle Erin Kelly *
Lori Renee Knierim *
Christopher Bradley Kuhns
Jamie Ann Latiolais
Laurel Elizabeth Link
Michael Patrick Martin
Susan Rebecca Mathew
John Michael McWilliams *+
Jakub Mieszczak
Nimaben Amulrai Naik
Juhi Nath *
Leila Bryan Nawaz
Bich Ngoc Ngo *
Tejas Bhupendra Patel
Amy Marie Robbins
John Matthew Runnels
Suzanne Elizabeth Senegal
Shamsia Shafi *
Prachee Singh
Holly Nicole Stallings
Karen Alisa Steepy
Bradley David Strong *
Robert Lee Stutts III
Thao Kim Tran
Creighton Charles Vaught
Rhonda Yvonne Vestal *
Jeffrey Kevin Viner
Michelle LeGare Whitesides
Matthew Brice Wilson
Elise Bidzar Yapoujian
Edward Seho Yun

Bachelor of Science in Chemistry

Christopher David Anderson
David C. Dekort
Chiles Wade Downey *++
Amal Saymeh Essader
Mollie Elizabeth Griswold
Tomas Navratil *
Michael Siew Poon *
Hitendra Prahlad Prajapati
John Thomas Richter
Robin Rajen Sukhadia
Wade Wesley Turner II
Diana Hsiao-Min Wagner

Bachelor of Science in Geology

James Marshall Shelton

Bachelor of Science in Mathematical Sciences

Tanisha Kinshasa Albert
Brandy Gulley Atkins
Kelly Lynn Brege
Jason Whitfield Cheek
Timothy John Cogger *
Shameka Lashaun Coleman
Joseph Charles Dougherty
Brian Chandler English
Brian Kenneth Flynn
Charles Edward Grabowski
Arthur Denton Gregory +
Jason Daniel Hollingsworth
Jeremy Jess Jones
Michael James Lockerman
Terence James McDevitt
Ameet Mahen Mehta
Michelleta Pleasants
Roger Mandell Rice
Dugald Wilson

Bachelor of Science in Mathematics

Paul Edward Rupe *
Nathan William Sisk
Victoria Lynn Stoops

Bachelor of Science in Psychology

Alisha Ann Dancy
Rebecca Ann Kizakevich
Andrea Suzanne Kuhn
Rashad Emir Kurtz
Nichole Dawn Loyd
Rashonn Nicole Martin
Stacey Ann McCumber *++
Shelley Renee Poovey
Corey Lee Sherrill
William Samuel Slade +
Catherine Mann Wade
Cynthia Renee Weeks

The School of Education

Established 1885

Interim Dean William I. Burke

Bachelor of Arts in Education

Heidi Lee Brown *
Jason Alexis Cade
Sylvia Michelle Creamer
Robin Joy Goldman
Christopher Arnaz Key
Edana Earlyne Lewis
Lynne Elizabeth Manchester

Michael Poon

We afford ourselves few opportunities to treasure the present before it becomes the nostalgia of yesterday's memories. Your time at Carolina should never be taken for granted. The friends made, the experiences shared, the knowledge sought for and achieved–these are the things that last for the years to come. The Carolina experience is here and now. Seize it and make it the best years of your life.

Madira Anna McKee
Kimberly Dale Michue
Erin Elizabeth Rhodes
Elizabeth Holleman Travis *
Ross Vogler White *++

Bachelor of Science in Science Teaching

Amy Michele Fine

The School of Pharmacy

Established 1897

Dean William H. Campbell

Bachelor of Science in Pharmacy

Julie Ann Alston
Nichole Sheree Beam
Tina Blazer
Angela Michelle Briggs
David Sheridan Brill
Robbie Ann Dietz
Kathrinn Plemmons Fitzpatrick
Alexis Glenn Kiger
Amy Elizabeth Landers
Jennifer Renee Morton
Julie Ann Parrish
Gregory Eugene Powell
Brian C. Robbins
Lisa Louise Thornton

The Kenan-Flagler Business School

Established 1919

Interim Dean John P. Evans

Bachelor of Science in Business Administration

Mary Gayle Altemueller
Dawn Marie Antalik
Gregory Paul Beatty
Marian Tatum Boggs
Allison Marie Campbell
Susan Paige Chandler
Janine Marie Crotts
Michael Phillip DeBerry
Charles Darrell DeLoatche Jr.
Jose Echenique
Katherine Nicole Echerd
Shannon Alise Goodwin
Mindy Darlene Guthrie *
Angela Mae Heath
Micheal Scott Henderson
Cameron Brant Hight
Shontel Marie Jung
Sonya Nicole King
Chetali Ashok Kuber
Ukonwa Kuzi-Orizu *
Chad Eric Loflin

Brian Michael Martin
Amanda Gail Matt
Brian Charles May
Brian Michael McCabe
Erika Dawn Meyers
Scott Alexander Oliver
Stacee Lynne Overman
Stephen Peter Rakouskas
Rostislav Christov Raykov *
Jeffrey Bryant Saturday
David Alexander Secrest
Stephanie Erin Spies *
David Madison-Forbes Stallings
John Jason Stephens
Shana Rue Stewart
Erich Karl Stroupe
William Blair Vaughn
Marcus Patrick Womack
Eric Zellweger *

Michelle Crutchfield

You take away from Carolina what you put into it. There are so many opportunities here that the real challenge for students is making the most of them all."

The School of Journalism and Mass Communication

Established 1924

Dean Richard R. Cole

Bachelor of Arts in Journalism and Mass Communication

William Woodrow Bean
Christopher Michael Beck
Casey Gordon Burns
Yvonne Marie Cerna
Dawn Melissa Charles
Amy Noelle Cook
Kelly Michelle Cowan
Kristen Elizabeth Cuffee
Tori Ann Davis
Jill Lovelace Duncan *
Tiffany Elizabeth Glenn *
Mark Andrew Gnadt
Jennifer L. Goldberg
Erin Barnes Guill *
Stephanie Holly Hamilton
Hayden Wallace Harles
Kara Leigh Hodges
April Lynn Johnson
Mary Abbigail Keller
Daniel Wade Kopp
Heather LeeAnn Lankford
Tina Prentice Lanning
Simone Emily Lueck
Laura Bess McNeill
Kevin John Metz
Christine Elizabeth Nicolette
Daniel Ninowski Jr.
Sarah Douglas Owens
David Naylor Park *
Kelly Michelle Pfaff
Sara Alison Scott
Chantiel Denise Smith
Leann Spradling
Heather Nicole Stone
Leon Edward Szczepanski Jr.
Jeffery Wayne Tatum
Joseph Zachary Tetreault
William Howard Wynn
Robert Cowley Young III
Cathryn Elizabeth Zevenhuizen

The School of Public Health

Established 1939

Dean William L. Roper

Bachelor of Science in Public Health

Carryl Ashley Alley *
Meredith Degen
Aime Lyn Goldberg
Emily Christine Hayworth
Katherine Lauren Hudson
Erik Myhrer
Amy Beth Pasternak *
John Vernon Roy *
Jason Stuart Schupbach *+
Crystal Elaine Ward

The School of Nursing

Established 1950

Dean Cynthia M. Freund

Bachelor of Science in Nursing

Angie G. Band
Edmeral Ayeowuoka Fiabema
Glenda Marks George
Stephanie Renee Gupton *
Ginger Tew McCullen
Ruth Ann Mennom
William Domonic Rocchi
Janie Ogburn Rowland *
Jevita Denise Terry
Janet Morrison Turner *

Candidates Commissioned in the United States Armed Forces

United States Air Force

Second Lieutenant
Elizabeth Ruth Feaster
Matthew Stephen Parrish

United States Armed Forces

Second Lieutenant
Ian A. Daunheimer
Bryan L. Stover
Christopher S. Synowiez

United States Marine Corps

Second Lieutenant
Christian Wayne Loftis

Origin of the University Colors

A symbol of unity among Carolina students, alumni, and fans, the school colors of light blue and white were first used around 1800 to distinguish between members of the Dialectic and Philanthrophic Literary Societies. Throughout the nineteenth century, students were required to be members of either the Di or the Phi. The Di's color was light blue, and the Phi's was white.

At University commencements, balls, and other social events, the student officials, managers, and marshals wore the color of their society, blue or white. Because the Chief Marshal or Chief Ball Manager represented the whole student body, not just his society, he wore both colors.

When the University fielded its first intercollegiate athletic teams in 1888, the question of what colors to wear had already been answered. Light blue and white had come to symbolize membership in the University, not in a single society.

Light blue and white have been considered the University's colors for more than a century. With the tradition so firmly established, a popular bumper sticker states that God must be a Tar Heel because he made the sky Carolina Blue!

 * Indicates probable candidates for degrees with distinction or highest distinction based on GPA going into final semester. + Indicates Honors recipients. ++ Indicates Highest Honors recipients.

Graduate Degrees • August 1997

The Graduate School

Doctor of Philosophy

Degree candidates' names are followed by their area of major study, dissertation or project title, and the name of their doctoral adviser.

Jeryl Lynn Appleby, *Microbiology and Immunology*, The Activation Mechanism of Reponse Regulator CheY. Under the direction of Professor Robert Bourret.

Barney M. Bishop, *Philosophy*, Ru(II) Binding Peptides Containing 4'-Aminomethyl-2,2'-bipyridine-4-carbonxylic Acid. Under the direction of Professor Bruce W. Erickson.

Kathryn Lee Blackmon, *Business*, Absorptive Capacity and the Survival of Established Firms in Schumpeterian Environments: The Case of the Supercomputer Industry. Under the direction of Professor Andrew C. Boynton.

Kenneth Richard Blake, *Journalism and Mass Communication*, Exploring Operational Measures of Citizen-Based Journalism: A Pilot Study. Under the direction of Professor Philip Meyer.

Kathleen A. Bratton, *Philosophy*, The Role of Race and Gender in Legislative Behavior. Under the direction of Professor George Rabinowitz.

W. Joseph Campbell, *Journalism and Mass Communication*, Against Long Odds: The Emergent Independent Press in Benin and Côte D'Ivoire. Under the direction of Professor Robert L. Stevenson.

Mimi Victoria Chapman, *Social Work*, Neighborhood Quality and Somatic Complaints Among American Youth. Under the direction of Professor Gary L. Bowen.

Xiaojun Cheng, *Pharmacology*, Identification of Novel DNA-binding Peptides Using Combinatorial Libraries in Yeast and Bacteriophage. Under the direction of Professor Rudolph L. Juliano.

Jefferson R. Cowie, *History*, Rooted Workers and the Runaway Shop. Under the direction of Professor Leon Fink.

Elizabeth Bowen Cox, *English*, Westward Bound: Promises of a Saving Place. Under the direction of Professor Townsend Ludington.

Amites Dasgupta, *Statistics*, Fractional Brownian Motion: Its Properties and Applications to Stochastic Integration. Under the direction of Professor Gopinath Kallianpur.

Michael S. Deal, *Marine Sciences*, The Causes and Consequences of Within-Species Variation in Sea Weed Chemical Defenses. Under the direction of Professor Mark Hay.

Giona M. D'Errico, *Counseling Psychology*, Development and Validation of the Cancer Concerns Inventory: A Measure of Illness-Related Cognitions. Under the direction of Professor John P. Galassi.

Geraldine M. DiRenzo, *Chemistry*, Olefin Dimerization and Cross-Dimerization Catalysis. Under the direction of Professor Maurice Brookhart.

Robert G. Donnelly, *Mathematics*, Explicit Constructions of Representations of Semisimple Lie Algebras. Under the direction of Professor Robert A. Proctor.

Sally Wallace Fowler, *Business*, High-Risk Strategic Decision Making: The Case of Investments in China. Under the direction of Professor Richard A. Bettis.

Frank W. Gaskill III, *School Psychology*, A Study of the Relationship between Memories of Preadolescent Family Rituals and Male Adolescent Behavior Problems. Under the direction of Professor Walter B. Pryzwansky.

Natarajan Gautam, *Operations Research*, Quality of Service for Multi-Class Traffic in High-Speed Networks. Under the direction of Professor V. G. Kulkarni.

William Stewart Gibbons, *Biomedical Engineering*, Effects of Plasticizers on the Mechanical and Dielectric Properties of Poly(Vinyl Chloride) Membranes for Electrodes and Biosensors. Under the direction of Professor Robert P. Kusy.

Laura Ann Gilliom, *Psychology*, Children's Appraisal of Interparental Conflict, Perceived Control, and Internalizing Symptons. Under the direction of Professor Barton Mann.

Steven Keith Green, *History*, The Rhetoric and Reality of the "Christian Nation" Maxim in American Law, 1810-1920. Under the direction of Professor John E. Semonche.

Thomas Brent Gunnoe, *Chemistry*, Chiral Group VI Complexes as Templaces for Ligand Transformations. Under the direction of Professor Joseph L. Templeton.

Gregory W. Harrington, *Environmental Sciences and Engineering*, Characteristics of Natural Organic Matter and their Influence on Alum Coagulation. Under the direction of Professor Philip C. Singer.

Kirk Allen Hazen, *Linguistics*, Past and Present *BE* in Southern Ethnolinguistic Boundaries. Under the direction of Professor Walt Wolfram.

Fu-Chih Hsu, *Environmental Sciences and Engineering*, Detection and Characterization of Enteric Bacteria and Bacteriophases as Indicators of Human and Animal Fecal Contamination in Foods. Under the direction of Professor M. D. Sobsey.

James Gerard Huiskamp, *Political Science*, The Privatization of Politics and Movement: Reframing Popular Collective Contention in Rural Mexico. Under the direction of Professor James W. White.

Celia F. Hybels, *Epidemiology*, The Prevalence of Phobic Disorders in a Community Population: The Role of Social and Personal Resources. Under the direction of Professor Berton H. Kaplan.

Esther Celia Janowsky, *Epidemiology*, Vitamin D and Breast Cancer Risk. Under the direction of Professor Barbara S. Hulka.

Michael R. Jordan, *Chemistry*, Synthesis of P-P Coupled Trüron Cluster Oligomers: An Investigation of Cluster-Mediated Electronic Communication. Under the direction of Professor Cynthia K. Schauer.

David Stuart Junkin, *Physics and Astronomy*, Development of a Cryogenic Microcalorimeter. Under the direction of Professor A. Champagne.

Aleksey Gregory Kazantsev, *Genetics and Molecular Biology*, Biochemical and Genetic Characterization of Xeroderma Pigmentosum Complementation Group E. Under the direction of Professor Aziz Sancar.

Kenneth Carroll Kennedy II, *Biomedical Engineering*, Development of a Novel Forming Process for Biomedical Composites. Under the direction of Professor Robert P. Kusy.

Sidney Catherine Silver Key, *Microbiology and Immunology*, Post-Transcriptional Regulation of the Epstein-Barr Virus DNA Polymerase Gene. Under the direction of Professor Joseph Pagano.

Laura Licato, *Microbiology and Immunology*, The Role and Regulation of AP-1 in Colonic Proliferation and Carcinogenesis. Under the direction of Professor David Brenner.

Laura Linder, *Journalism and Mass Communication*, The Future of Public Access Television: The Electronic Soapbox in the Twenty-First Century. Under the direction of Professor John Bittner.

Peggy M. Lee, *Business*, A Comparison of Ownership Structures, R&D Intensity, and Innovations of United States, German, and Japanese Firms. Under the direction of Professor Hugh O'Neill.

Li Li, *History*, Mission in Suzhou: Sophie Lanneau and Wei Ling Girl's Academy. Under the direction of Professor Michael Hunt.

Deborah Ann Logan, *English*, Marry, Stitch, Die or do Worse: Representations of Fallenness in Victorian Women's Writing. Under the direction of Professor Beverly Taylor.

Elizabeth Patrice MacKenzie, *Psychology*, The Computer-Assisted Parenting Program (CAPP). Under the direction of Professor Joseph Lowman.

Joseph Lee Mahoney, *Psychology*, The Prediction and Prevention of Crime: Developmental Antecedents and Turning Points. Under the direction of Professor Robert B. Cairns.

Kelly Malone, *English*, Jack's Fictorious Conquests: Popular Fictional Ephemera and Defoe's Literary Imagination. Under the direction of Professor Thomas Stumpf.

Rebecca K. Manitsas, *Chemistry*, The Ixidative Cross-Linking of Bovine Prothrombin Fragment One. Under the direction of Professor Richard G. Hiskey.

Pamela Margo Marcus, *Epidemiology*, The Association of Adolescent Exposures and Subsequent Breast Cancer Risk. Under the direction of Professor Beth Newman.

Candice Howland May, *English*, The Role of Children in the English Mystery Plays. Under the direction of Professor E. D. Kennedy.

Tadeus R. Mazurek, *Classics*, Legal Terminology in Horace's *Satires*. Under the direction of Professor Jerzy Linderski.

M. Elizabeth McClelland, *City and Regional Planning*, The Use of Attitude Indicators in Contingent Valuation Research: A Test of Validity and Theoretic Compatibility. Under the direction of Professor Dale Whittington.

Janey Sturtz McMillen, *Special Education*, Child and Family Characteristics as Predictors of Child's Quality of Life. Under the direction of Professor Rune J. Simeonsson.

Mark Raymond Mine, *Computer Science*, Exploiting Proprioception in Virtual-Environment Interaction. Under the direction of Professor Frederick P. Brooks Jr.

Mario Chen Mok, *Biostatistics*, Logistic Dose-Response Models under Compliance Measurement Error for some Problems in Inhalation Toxicology. Under the direction of Professor Pranab Kumar Sen.

Soumyo Mukherji, *Biomedical Engineering*, Ionic Gradients across the Myocardial Perfusion Border during Regional Ischemia. Under the direction of Professor Timothy A. Johnson.

Sean Michael Oldham, *Pharmacology*, Oncogene Mediated Signaling Transformation of Epithelial Cells. Under the direction of Professor Channing J. Der.

Niki U. Cotten Oldenburg, *Maternal and Child Health*, HIV-Related Issues among Women Inmates in North Carolina. Under the direction of Professor Sandra L. Martin.

Maureen Elizabeth O'Rourke, *Nursing*, Prostate Cancer Treatment Selection: The Family Decision Process. Under the direction of Professor Barbara B. Germino.

Lisa M. Pastore, *Epidemiology*, Predictors of Urinary Tract Infection during Pregnancy. Under the direction of Professor David A. Savitz.

Michael Forgbes Piehler, *Environmental Sciences and Engineering*, Interactions of Coastal Petroleum Pollution and Nitrogen Fixing Marine Microbial Consortia. Under the direction of Professor Hans W. Paerl.

Heather Hanson Pierce, *Genetics and Molecular Biology*, Analysis of Ligand Interactions with Calcium-binding Proteins Using Combinatorial Peptide Libraries. Under the direction of Professor Brian K. Kay.

Craig Pohlman, *School Psychology*, Participation as a Mediator for the Effect of Cooperative Learning on the Social Perceptions of Students with Academic Difficulties. Under the direction of Professor Barbara Wasik.

Eric Emmanuel Poma, *Microbiology and Immunology*, Functional Significance of the Interaction between the HCMV IE1-72 Gene Product and the p107 Protein. Under the direction of Professor Eng-Shang C. Huang.

Alan Rutledge Potts, *Chemistry*, Probing the Conformational Isomers of Methyl and Ethyl Substituted Cyclohexanones and Cyclopentanones by 2 + 1 Resonance-Enhanced Multiphoton Ionization Spectroscopy. Under the direction of Professor Thomas Baer.

Natalie Moore Priebe, *Mathematics*, Detecting Hierarchy in Tiling Dynamical Systems via Derived Voronoï Tessellations. Under the direction of Professor Karl E. Petersen.

Maria Rose Rippon, *Comparative Literature*, Whose Crime and Whose Punishment?: Adultery in the Nineteenth-Century Novel. Under the direction of Professor Lilian R. Furst.

Timothy J. Romack, *Chemistry*, Polymerization of Fluoroolefins in Liquid and Supercritical Carbon Dioxide. Under the direction of Professors Joseph M. DeSimone and Mary Ann Smith.

Kathryn Ann Rummell, *English*, Defoe and the Significant Others: Colonial Encounters in Defoe's Travel Fictions. Under the direction of Professor Thomas Stumpf.

Yothin Sawangdee, *Sociology*, Migration Chains and Paths: Consequences for Migration and Children's Living Arrangements. Under the direction of Professor Ronald R. Rindfuss.

Barry William Seaver, *Information and Library Science*, The Career of Rebecca Browning Rankin, the Municipal Reference Librarian of the City of New York, 1920-1952. Under the direction of Professor Edward G. Holley.

Fuyuan Shen, *Journalism and Mass Communication*, Assessing Advertising Effectiveness: A Comparison of Four Measures of Ad Liking. Under the direction of Professor Xinshu Zhao.

Charles Edward Slusher, *Economics*, The Allocation of Time and Resources in Multi-Generational Families: Evidence from the United States and Malaysia. Under the direction of Professor David Blau.

Martha Jean Tanner, *Chemistry*, Mechanistic Studies of Co(III)-Catalyzed Reactions: Living Polymerization of Ethylene. Under the direction of Professors Maurice Brookhart and J. M. DeSimone.

Virginia Lynn Taylor, *Cell Biology and Anatomy*, Electron Microscopy and Image Analysis of Normal and Cataractous Lenses. Under the direction of Professor M. Joseph Costello.

Valerie Tiberius, *Philosophy*, Deliberation about the Good: Justifying What We Value. Under the direction of Professor Thomas E. Hill Jr.

Lisa Tomasko, *Biostatistics*, Discriminant Analysis With a Structured Covariance Matrix and Random Effects. Under the direction of Professor Ronald W. Helms.

Philip Andrew Townsend, *Geography*, Environmental Gradients and Vegetation Patterns on the Roanoke River Floodplain, North Carolina. Under the direction of Professor Stephen J. Walsh.

Christopher Allen Trenholm, *Economics*, The Impact of Prenatal Medicaid Programs on the Health of Newborns. Under the direction of Professor Thomas A. Mroz.

Willem Mathias Vanden Broek III, *Chemistry*, Antibody-Membrane Interactions: Theories, Techniques, and Investigations. Under the direction of Professor Nancy Thompson.

Carlos N. Velez, *Pharmacy*, Antigen Delivery to M Cells of Peyer's Patches by Means of Sensitized Liposomes for the Stimulation of Mucosal Immune Responses. Under the direction of Professor Moo J. Cho.

Zhuo Wang, *Chemistry*, Total Synthesis of (±)-Lubiminol. Under the direction of Professor Michael T. Crimmins.

Kevin Lindsey Webb, *Business*, Understanding Hybrid Channel Conflict: A Conceptual Model and Four Case Studies. Under the direction of Professor Nicholas M. Didow.

Diane Marie Wilcox, *Educational Psychology*, The Use of Animation with Instruction and Feedback in Fractions Software for Children. Under the direction of Professor Wallace Hannum.

Sheila Miller Wilkerson, *Curriculum and Instruction*, A Model for Evaluating the Effectiveness of Instruction in Content-Based Teacher In-Service Workshops. Under the direction of Professor Paul B. Hounshell.

Quan Xin, *Chemistry*, Electrochemical and Optical Microsensors. Under the direction of Professor R.M. Wightman.

Nan-Jun Yu, *Chemistry*, Structural and Functional Studies of Chloroplast Translational Initiation Factor 3 from *Euglena Gracilis*. Under the direction of Professor Linda Spremulli.

Albert George Zimmermann, *Pharmacology*, Characterization of the Human Inosine-5'-Monophosphate Dehydrogenase Type II Gene and its Regulation in T Lymphocytes. Under the direction of Professor Beverly S. Mitchell.

Doctor of Public Health

Cora Breeden Parker, *Biostatistics*, ROC Methodology within a Monitoring Framework: An Application to the Monitoring of Thrombolytic Treatment Outcome following Acute Myocardial Infarction. Under the direction of Professors Elizabeth R. Delong and Gary G. Koch.

Alan John Wabrek, *Health Policy and Administration*, Perceptions of Physicians and Managed Care Organizations toward Counseling about Hormone Replacement Therapy (HRT): An Exploratory Study. Under the direction of Professor Paul K. Halverson.

Chartering the University

The first state constitution of North Carolina, ratified in 1776, called for the creation of one or more universities to encourage and promote "useful learning."

But the University was slow in coming. A bill introduced in the state legislature in 1784 to establish "North Carolina University" was defeated because many people feared that the proposed university could become an aristocratic bastion against the state's common people. Similar fears led North Carolinians not to ratify the U.S. Constitution when the state first voted on it in 1788. Many feared that the strong central government proposed by the Constitution might endanger the rights and liberties of the common people.

Many state leaders demanded that a Bill of Rights guaranteeing those liberties be added to the Constitution and late in the summer of 1789 Congress passed the amendments that became the Bill of Rights. On 21 November 1789 North Carolina delegates meeting in Fayetteville ratified the Constitution.

William R. Davie, who had helped write the United States Constitution and had urged his fellow North Carolinians to accept it, turned the attention of the General Assembly, also meeting in Fayetteville, to higher education. Davie proposed a bill to establish and charter a university, noting in the bill's preamble that "in all well regulated Governments, it is the indispensable duty of every Legislature to consult the Happiness of a rising Generation, and endeavor to fit them for an honorable Discharge of the Social Duties of Life, by paying the strictest attention to their Education."

The Federalist spirit of the General Assembly swept through the meeting of the North Carolina delegates, and Davie's bill was enacted on 11 December 1789.

Post Baccalaureate Professional Degrees
Graduate and Professional Graduate Degrees • August 1997

The School of Law
Established 1843

Juris Doctor

Derek Olivier Chen
Arnetta Carol Girardeau
Amy Denise Donaldson Hines
Thomas Russell Johnson +

The School of Pharmacy
Established 1897

Doctor of Pharmacy

Alyce C. Holmes
Caroline Rejina Johnson
Christina Adams Johnson
John Claude Rublein

The School of Dentistry
Established 1949

Doctor of Dental Surgery

Neil E. Dunlow
Lori J. Petree
Kristin Elise Shahan

+ Indicates graduates with the degree of Juris Doctor with Honors, Juris Doctor with High Honors, or Juris Doctor with Highest Honors.

The degree of Juris Doctor with Honors is awarded to students who: complete the requirements for the Juris Doctor degree; attain an weighted average grade of 3.0 or more, or the top third, on all law courses taken; and meet a writing requirement of publishable materials. The degree of Juris Doctor with High Honors is awarded to students who complete all requirements for the Juris Doctor with Honors and who, in the judgment of the faculty, have demonstrated superior legal scholarship in their work.

In certain instances, the degree of Juris Doctor with highest honors may be awarded in recognition of exceptionally high performance.

The Graduate School
Established 1876

Master of Arts

Arturo Scott Bagley
Victoria Lynn Bowden
Julie Paige Boylin
Susan Michele Comeau Stender
Thomas Robert Elliott
William Frederick Fahrbach II
Nora S. Favorov
Kelly Ann Feltault
Mary Caroline Fournier
Theresa Blakey Geddes
Jennifer Lynn Glanville
Cheryl Lynn Goldman
Sally Hatch Gray
Christopher Heath Hair
Tina Louise Hansen
Jonathan Hart Harrison
Eric Edward Heintzberger
Keith Richard Hersh
David Bruce Hessell
Thomas Anand Holden
Corey Lamont Holliday
Elizabeth Scarborough Hudson
Brett David Jones
Nicola Anne Jones
Philip A. Kaufman
Michael Andrew Kaylor
Erin Weston Kelly
Louis Seth Matza
Amy Lind McClung
Bernadette Virginia McGlade
Amy Elisabeth Miller
Michael David Mistler
Mark Steven Moore
Timothy Michael Muehlhoff
Rhonda Renee Newcomer
Stephen Gregory Pemberton
Julie Anne Dumont Rabinowitz
Marcy Lynne Ray
Aimee Marie Reiter
Ernest Luther Ritchie
Suzanne Ruffing
Jonathan D. Ruth-Vanantwerpen
Gabrielle Margret Schneider
Charles Hanford Seagle
Lucelia M. Selden
Evan Stanley Sheffels
Lynn M. Silverstein
Erika Jean Simon
Simon Peter Sohonyay
Kathleen E. Spencer
Todd Clifford Stabley
Matthew Gene Stanton
Charles Delton Streeter
Jennifer Torns
John Scott Tyhonas
Jill Marie Umscheid
Jason Walden
Brent Wayne Walker
Benjamin Bradley Walther
Steven Todd Wuhs
Michele Danza Wysocki
Erika Kristen Yowell

Master of Science

Alison J. Alaimo
Kwanjai Amnatsatsue
Rajesh Balkrishnan
Jason Eric Bergman
Katherine Rebecca Bowman
Kristen Michelle Boyt
Kathryn Denise Brannan
Karen Bullock Brown
Brian Calingaert
Michael W. Carter
Scott W. Cashion
Theresa Lenise Clifton
Alison Green Cornwell
Danielle Marie Dadich
Bennie Clark Dalton
Milisa Grace Dapper
Emmanuel Olutayo Delano
Kurt Edward Delius
Stewart Anthony Waller Diemont
Angela Curry Earnhardt
Adam Mitchell Eyring
Jonathan Allen Feldman
Donald Dee Franklin
Yuanyun Fu
Bryan Austin Haas
Michelle Louise Harb
Shau-Shiang Ja
Russell Kenneth Jackson
David Andrew Johannsen
Paula Evelyn Kies
Paula M. Knowlton
Alain Bernard Labrique
Rodney Mark Lee Jr.
Catherine Eva Leonard
Joshua L. Levy
Robert Mark Loftin
Louis R. Marion
Jean Holloway Markley
Karen Sonnone McAndrew
Freida Myers Melvin
Jennifer Ann Miles
Amy S. Miller
Denai Rochelle Milton
Kelly Lynn Mirone
Sarah Margaretha Mosier
Madhu Karunakaran Nair
Mary Ann Neaton
Munpyung O
Zhiying Pan
Ashley Gail Perkins
Monica McAdoo Perry
Joseph Leconte Pringle
John Charles Pritchett
Brenton Jon Ream
Stacy Anne Reid
Gretchen Alyse Riser
Alicia M. Robb
Lynn Susan Rodgers
David Arnold Schlappy
Joseph Anthony Scotto Jr.
Andrew Michael Sever
Tammy R. Severt
Laurie Ann Towers
Laurent Vignaga
Jodi Kay Blakely Webb
Rodney A. Willard
Louise Mary Wulfsohn
Hongyan Zhang
Elizabeth Ann Zubritsky

Master of Fine Arts

Bryan Guilford Fitz
Anthony Michael Indelicato

Master of Public Administration

Benjamin Charles Durant

Master of Regional Planning

Joseph Paul Bamberg
Amy Alice Bonitz
Kenneth Alan Bowers
Benjamin Gardner Hitchings
Diane Kay Levy
Stephan Mark Rodiger
Matthew Gerard St. Amand
Tara Lynnette Wright

The School of Education

Established 1885

Master of Education

Rebecca Jean Archibald
Diane Rose Bergeron
Amy Danielle Borg
Denise Marie Stromski Brewer
Laura Reid Brewer
Shelley Carpenter
Neil Alexander Clay
Jennifer Ann Colt
Monir Mary-Anne Evers
Leslie Carole Friedman
Noel Goldberg
Donna M. Hammond
Daniel Lawrence Harris
Marie Zirpoli Hawkins
Kelly Ann Longacre
Suzanne Parker Maddux
Randal McCoy
Anne Kristin Morris
Julia Ann Peyton-King
Lisa Gaye Rodden
Rebecca Ann Rogers
April Arletha Scott
Ellyn M. Slepian
Sheryl Leigh Spivey
Heather Lovelace Suddreth
Mary Jane Tinker
Heather Anne Whiteford
Cynthia Virginia Wyatt

Master of Arts in Teaching

Shawna Michelle Buckler
Hope Laine Campbell
Laura Ellen Caudill
Jenna Michelle Gaske
Lisa S. Grate
Daniel Lawrence Harris
Sally Ann Nickerson
Felisa Dyan Sheskin
Dawn Michelle Spiggle
William Yu

The Kenan-Flagler Business School

Established 1919

Master of Accounting

Whitney Catherine Allen
Roy Farmer Alley III
Aidan J. Arney
Deborah Ann Bacot
Angela Doylene Baldwin
Scott Frank Barnette
Heather Elise Bell
Jeffrey How Berkaw
Alexander Thomas Biegert
Sharon Yvonne Bolus
Philip Darwin Carey
Laura Paige Cathey
Amelia Ting-Yu Chang
Gary Paul Chiou
Cindi Dawn Christianson
Seabrook Edwards Connell
Jason Todd Connor
Kirsten Lee Crosby
George Gregory Damron Jr.
Manuel Bryan Debettencourt
Jessica Leigh DiSantostefano
Katharine Marie Dyda
Darel Brett Ellis
Eric Lance Eubanks
Ashley Mighell Foster
Robert Gaston Fox III
Nicole Wanda Friedel
Amy Marie Gordon
John Joseph Gorman
Theresa Eileen Hartley
Stephen Michael Hauber
James Gregory Herring Jr.
Julie Robinson Hildebrand
Tonya A. Hollingsworth

Jay Garland

UNC-Chapel Hill will forever hold a special place in my heart and will always be a part of the dearest memories of my leap into adulthood. The boy from New York who originally walked through this beautiful campus is about to emerge as a confident man, full of pride in the institution that has helped guide him in becoming who he is today and who he will be tomorrow.

Robin Ann Howard
Ryan Hunter Hutcheson
Bradley Graham Inman
Michael Ray Johnson
Victoria Lorraine Johnson
Seby Russell Jones
Neal Gilchrist Jordan
Laurie Marie Kepley
Orman Lanier Kimbrough V
Kent Randall Klein
Hugh Talmage Lefler III
Michael Alan Mankowski
Holly Harton Marquette
Philip Stephen McCreary
Danielle Marie McCully
Jonathan Michael McLester
Patty J. McRae
Cynthia Kay Miller
Tanya Anil Nadkarni
Guisug Gina Nam
Justin Jeremiah Orbock
Joseph Elton Parrish
Christopher James Potter
Paige Elizabeth Powell
Martha Munroe Renger
Melissa Jo Reynolds
Michelle Erica Rhodes
Jennifer Dawn Richardson
Phillip Wayne Robbins Jr.
David Jacob Royal
Richard Brian Rozelle
Stephanie Erin Scherer
Natalie Paige Scott
Mary Ellen Shearon
James Alan Spaulding
Laura June Stanley
Jennifer Paige Stewart
David Elliott Tepper
Wendy Ann Thomas
James David Vanke
Jason Grantham Watts
Heather Leigh Welborn
Kenya Janel Windley
April Louise Wolfe
Mary Victoria Wright
Suzanne Lyn Wuelfing
Yonghong Yang

Master of Business Administration

Kenneth Edward Ast
Krista Baker Barr
Stephen Gregory Barr
David Louis Beam
Kevin Joseph Borek
Sanjoy Chatterjee
Mark Allen Cirucci
Naomi Laura Takeuchi Courter
Richard Benjamin Eitel
Charles Gary Enderline
John Anthony Feller
Deanna Lynn Gureck
Ian Arthur William Howes
Johanna Prather Koester
Amy Anderson Lamphier
Brian Arthur Leuthner
Andrew James Logan
Jeffrey Stuart Miller
Vincent T. Morgus
Snehal Harivadan Parikh
Walid Munir Ramadan
Deborah Havens Shah
Allen David Shaver
Edward Lee Smith Jr.
Mark William Vannette
Sandra Peake Williams

The School of Social Work

Established 1920

Master of Social Work

Shelley Watts Beason
Elizabeth Carlan Hollers
Ruth Sonya Kravitz
Yvonne Rena Lewis
Margaret Gwyn Winstead

The School of Information and Library Science

Established 1931

Master of Science in Information Science

Saianand Balu
Michael Anthony Carter
Matthew Daniel Digan
Nathan Eugene Harwell
Heather Dawn Mitchell
Ilyas Naibov-Aylisli
Matthew Sean Pardo
Robert Grist Sumner Jr.
Constance Humphries Weiland

Master of Science in Library Science

Leah Grace Ewing
Jennifer Mae Frye
Andrew William Ingham
Melissa Ann Kendrick
Claire E. LaForce
Madelyn Frances McCracken
Marni Jo Overly
Lynn Eaton Pritcher
Timothy John Shearer
Cynthia Lynn Sturdivant
J. Reed Williams

Certificate of Advanced Studies in Information and Library Science

Andrea Janska

The School of Public Health

Established 1939

Master of Public Health

Susan Houghton Abeln
Moinuddin Ahmed
Yasmin Shammi Ahmed
Aarti Arora
John D. Bagnulo
Ferdousi Begum
Ram Dulal Bhowmick
Ann Lindsay Bishop
Caroline Marie Bishop
Connie Susan Blumenthal
Bruce B. Brehm
Julie S. Byerley
Brinton Carey Clark
Michele Lynn Collins
Beverley Ann Cummings
Nicole Maria D'Andrea
Lumbe Kibebe Davis
Laurence Desplanques
Nimal Edirisinghe
Rachel Anna Galanter
Herbert Norman Giebel
Wadia Joseph Hanna
Kenny R. Hicks
S.M. Anwar Hossain
Greg Alan Hottinger
Signy Holmberg Judd
Wendalyn K. King
Robert John Letourneau
Jeremy Andrew Long
Randy Dean Louchart
Jennifer Jerry Lucas
Sean Richard Lucas
Joanna Penland Love Mangum
Dwight Julius McFadden III
Kathryn Barbara McGuckin
Christopher Perry Miller
Alexis Anne Moore
Pankaj Kumar Mukherjee
Marianne Elizabeth Nennstiel
Robert S. Newsad
Jane Kaplowitt Pike
Cyrilla Elizabeth Purnell
Deborah Lynn Radisch
Kimberly Boomer Ring
Cathy Gail Robuck-Mangum
Robert Wesley Rountree
Laura Marie Saint Martin
Abdus Salam Sarker
Deborah Karen Shrem
Mahbub Alam Siddique
Kristen Danielle Smith
Howard Straker
Sarah Brill Thach
Tanya Lalita Thampi
Adam Jason Zolotor

Master of Science in Environmental Engineering

Robert Arthur Haith
Tara Lynn Hickey
Thomas Douglas LeCourt
Chitra Parameswar
Denise Violon Roy
Gregory John Tallmadge
Joseph Michael Voelker

Master of Science in Public Health

Deborah Suzanne Cousins
Katherine Mary Gesteland
Jonathan J. Juliano
Michelle Ann Mendez

Master of Healthcare Administration

Melanie Dawn Carter
Sudesh Kataria

Master of Physical Therapy

Lori E. Benn
Curtis D. Conard
Ennea Selene Dailey
Melissa Deanne Dalton
Mark Stephen DeLyon
Robert Anthony Elson
Sarah Ramsey Farmer
Scott A. Floyd
Bonnie Robin Glazer
Amy Winstead Godwin
John Frederick Karl
Jessica Anne Kostyu
Tracy McKiernan
Mary Elizabeth Moran
Charles Henry Moseley III
Scott Dieter Mullens
Cara Hooker O'Connell
Michele Lynn Ogden
Sallie Leigh Paar
Eugene Joseph Peterson
Susan Higgins Reeves
Diosdado George Salaveria
Jill Ann Thurber
John Mark Van Eyk
Wendy Lee Vernon
Deborah Ann Ward

The School of Nursing

Established 1950

Master of Science in Nursing

Kathryn Hurliman Bland
Kelly A. Fogarty
Lawrence Leland Hux
Bobbie Jo Lee
Sultana Madeleine Patterson
Nancy Alice Ruppert
James Clifford Trogdon

The Dean E. Smith Center

Today's ceremony attests to the flexibility of the Dean E. Smith Center, one of the most impressive collegiate arenas in the country. Begun as a mission of unparalleled proportion in college athletics, the 300,000-square-foot edifice was built with funds raised entirely from private donations. It stands on seven and one-half acres on the University's south campus. Over 20,000 cubic yards of rock were removed to make room for the 340-foot-wide, 380-foot-long building.

The building, which opened in January of 1986, has three levels. The first floor features six recreational locker rooms, the basketball dressing area, which contains a players' lounge complete with computer terminals and study desks, as well as fully-equipped training and weight rooms for use by the basketball players. On the second floor visitors can enjoy a memorabilia room that houses artifacts of Carolina's rich athletic tradition. The uppermost level features a 1,200-foot-long, 22-foot-wide concourse with eight concession stands and a souvenir showcase, all of which are easily accessible from the sixty-eight aisles along the concourse.

The Smith Center's design allows it the flexibility to host numerous entertainment events. A large grid hangs over the east end zone from which more than 50,000 pounds of sound and lighting equipment can be easily attached. Some of the most heralded stars in the entertainment business have performed here. Since Kenny Rogers staged the first concert in the arena in 1986, entertainers ranging in appeal from Bruce Springsteen to John Denver, Pink Floyd to Garth Brooks have performed to enthusiastic crowds. But the main attraction, and indeed the very reason for the Smith Center's existence, is Carolina basketball. Since January 18, 1986, when Warren Martin scored the first Carolina basket in the Smith Center, the center has seen the team develop an impressive win ratio of nearly ninety percent.

– *Angie Bitting,*
Smith Center Public Relations

Baccalaureate Degrees • August 1997

The College of Arts and Sciences

Established 1793

Bachelor of Arts

Afro-American Studies

Rachel Phillips Bianchi * ++

American Studies

Kenneth Alan Skidmore
Cathryn Garrett Taylor

Anthropology

Anna Kimball Milroy
Monica D. Reckless

Art History

Carey Christine Barr
Albert Jean DeForest IV
Heustis Pennington Whiteside

Biology

John Alfred Ashworth IV
Michelle Marie Berry
Tamara Joy Buie
Jeannetta Cleo Crutchfield
Connie Christine Davis
Willa Bianca Fields
Stephanie Monique Gallaway
Jennifer Diane Hartz
Jonathan Scott Hester
Frankie Odell Hunt
William Brian Long
Randy Troy Perry
Kristian Sean Rhein
Alyce Kimberly Schatz
David Jonah Starman
Kristi Ann Woody

Chemistry

Elizabeth Barham Batten
Kiran Kumari Lal
Jonathan Bradford Smith
Zahra Ali Syed
Leslie Marie Waring
Lisa Marie Williams

Communication Studies

Scott Preston Beland +
Eric Shannon Bryant
Daniele Dawne Canney
Melissa Sealey Corbett
Shasta Laine Cornelius
Nakia Chennetta Davis
Maria Charlene Edwards
David Hughes Egan
Robin Dell Evans
Nichica Charmaine Flippen
Monica Franklin
Edward Demetrius Geth
Melody Marmar Hatefi
Adam Richard Haymond
Robert Paxton Hollar
Teresa Lynn Horne
Jennifer Marie Jones
Houston Magill Kimbrough III
Erin Elizabeth King
Jessica Kongthong
David Anders Lyndrup
JoAn Paet Macatangay
Steve Allen Oakes
Jacqueline Jeanetta Perry
Margaret Ellen Plambeck
Ashley Elizabeth Powers
Amy Michelle Roberts
Robert Joshua Rowell
Jacqueline Diane Samek
William Braun Smith
Julie Annette Watts
Richard Ryan Weeks
Caroline Fitzgerald Woodard
Hoyt Payne Young

Dramatic Art

William Ryan Laberis
Patricia Pei Lee

Economics

Matthew Paul Belcher
Heather Renee Brown
Wes Calvin Bunting
Jefferson Craig Dickson
David John Eckert
Christopher Hardisty Harrington
Tonya Chyran Houpe
Amy Rebecca Hulsey
Ryan Patrick Nelson
David Read Patterson Jr.
William Walter Rapp
Zaki Yusuf Sattar
Matthew James Smith
Rachel Elaine Smith
Frederick Robert Streszoff
Kelly Leigh Thomason
Pratik Chandrakant Trivedi
Heather Rebecca Weldon
Tonya Renee Yarborough

English

John Nelson Adcock
Lashaon Jill Alford
David Brittain Bone
Chadwick Gordon Burns
Sandra Ann Coltrane
Gillian Nicole Compton
Kathryn Ann Drum
Mary Miller Dunstan
Amber Malia Fewell
Joseph Stephen Finley
Jennifer Anne Gandel *
Anthony Graham
Anna Halme
Robin Michelle Hart
Alison Jennifer Ince +
Jenifer lee Kocourek
Leslee Catherine Miller
Susan Elizabeth Orrell
Amanda Rae Padgette
Lora Marie Ponzi
Andrea Marie Richardson
Lisa Brook Robbins
Scarlett Gale Schenck
Rebecca Christina Slone
Katherine McLaurin Smith *
Walter James Snider
Kathryn Noelle Taylor
Molly Nichole Warmack
Molly Parker Johnson Weston
Candace Renee Young

French

Nicholas Clayton Moore

Geography

James Kevin Bodiford
John Michael Estok
Jason Robert Meyer
Kristin Elaine Plum

History

Anthony James Barwick
William Lewis Bost
Carrie Ruth Carr
Stephen Timothy Clark
Graham Harvey Cosper
Michael Fitzgerald Haley
Christian Lee Hoyt
William Eric Johnson
Bryan Alan Kincade
Scott Galloway Long
Wendi Lyn Moore
Tonya Renae Pate
Judith Anne Riley
Erick Lewis Schult

Industrial Relations

Ginger Christa Bodenheimer
Benjamin Taylor Clark
Guy Thomas Current
Christopher William Debnam
Matthew Caldwell Fowler
Joshua Joseph Gira
Brian Joseph Hodge
Kelly Diane Paszt
Deborah Jeanne Rinas
Markus Paul Sauer
Chris Florin Sersy
Jason Edward Smith
George Thomas Stronach
Jessica Leigh White

Interdisciplinary Studies

Margaret Markee Morrison *

International Studies

Erik Brennan Durbin
Allison Brooks Gunter
Clay Christian Heaton
Andrea Renee Jenkins
Petra Nicole Keith
Christine Susanne Williams

Italian

John David Lilley

Latin American Studies

Michael Edwin Joseph

Leisure Studies and Recreation Administration

Thomas Frank Goforth Jr.

Music

Edgar Joseph Jordan III

Peace, War, and Defense

Daniel Holihan Doyle
Inkwon David Kim

** Indicates degree with distinction based on GPA. ** Indicates degree with highest distinction based on GPA. + Indicates Honors recipients. ++ Indicates Highest Honors recipients.*

Philosophy

Patrick James Koch *
John Daren Pritchard

Physical Education

Justin Philip Blaylock
Jessica Maria Bottesch
Eddy Lucas Boyette Jr.
Angela Michelle Choplin
Shawn Michael Crouthamel
Edie Barbara Ferguson
Kara Denise Graves
Jeremy T. Hall
Brandon Ray Hill
Brendan Patrick Irwin
Robert Bruce Kinney
Tracy Consuela Sadler
Veronica Lea Wardsworth
Kristy Renee Welsh

Political Science

Byron James Baker
Katrina Yvette Billingsley
Matthew Bennett Branum *
Justin C. Bridwell
Alan Jordan Carroll
Barton Alexander Davis
John Scott DeBoer
Cary Dean Gillenwater
Clinton Gene Healey
Sharon Elaine McNeill
Hilton Stuart Mitchell
Jeremy Lane Murchland
Charles Thomas Park
Kirtida N. Patel
Charles David Poe *
Jonathan Rees Richardson
Kirti Ann Shastri
William Rossiter Short
James Raymond Strain
David Fergus Sutton
Duke Paradai Theerathada
Johnathan Todd Tisdale
Robert Spencer VanPelt
Maria Patricia Veloso-Pait
Joseph George Ward Jr.
Candice Dawn Whitfield *
Tommie Renae Wright

Psychology

Michelle H. Avelar-Schnell
Catrice Renee' Ayscue
Kristan Rebecca Barker
Tyrina Dawn Blomer
Melanie Anne Capoot *
Lori Ann Clark
Susan Renee Clark
Dawn Marie Conte
John David D'Adesky
Ashley Anne Davis
Deborah Lynn Dee **++
Joy Lorraine Dempsey
Dung Nguyen Donie
Courtney Elizabeth Fredrickson
Christa Marie Fuller
Jeannette Shari Goodwin
Cameron Leigh Harris
Tammy Olene Hayes
Katrina Kay Hinton
Elizabeth Hewitt Irvin *

Matt Roberts

I cannot imagine a better college environment than UNC. From cheering on the Heels at Kenan Stadium to cramming for final exams in Davis Library, I have made lifelong friendships, priceless memories, and even learned a few things over my four years here. I'm proud to be Tar Heel.

Adnan Ahmed Javaid
Kim Diveta Johnson
Christopher Marius Menocal
Shaun David Millington
Ellen Margaret Minnie *
Sybrennah Antanette Mosley
David Warren O'Donnell
Dawn Maria Ramsey
Jessica Lauren Raymond
Joy Tanisha Sellars
Christine Douglas Shaw
Caroline Crosland Sinal
Dwight Stuart Smith
Thomas John Sobel
Danielle Raenae Suggs
Marlo Antionette Thomas
Mindy Lois Thornton
Sara Elizabeth Tuttle
David Alexander Wessells *
Susann Marie Wigger
Rebecca Allison Williams
Son Il Yun

Public Policy Analysis

Robin Heather Edwards

Radio, Television, and Motion Pictures

Wendy Adele Frye
Jonathan Allen Sherwood

Religious Studies

Ivan J. Vazquez

Spanish

Robyn Elizabeth Ward

Sociology

Jeremy Asbury
Bridgett Darlene Autry
John Alexander Clement
Elizabeth Ashley Cox
Randall Felton
Sherry Denise Henderson
Brent Alan Johnson
Trina Lanette Stephens
Holly Kristine Trotter

Speech

Felicia Annette Clemons
Kristen Lynn Hawkins

Studio Art

Darrin Randell Ashford
Kimberly Colleen Cusic
Gwendolyn Lorele Douglas
Shira Beth Niedel
Erin Colleen Tohill

Bachelor of Fine Arts

Debra Kaye Cooper
Brenda Shipman
William Booth Taylor

Bachelor of Music

Nena Marie Cole

Bachelor of Science in Applied Science

John Derek Featherston
Donald Ray Oates Jr.
Shannon Wu *

Bachelor of Science in Biology

Todd Fulton Abernathy
Jason Michael Adams
Charles Davis Allen III *
Troy Alan Arnold
Kelly Margaret Bertha
Heather Elizabeth Brown
Ursula Camille Calvin *
Clay Adams Cauthen
Catherine Neille Gillespie
Lisa Leigh Girardin
Eleanore Raethle Godfrey
Robert Wilson Gorrell
Mary Elizabeth James
Briana Renee Johnson
Craig Adam Jones
Eavan Ita Kilbride
Tae-Soo Kim
Chadd S. Kull
Brian Bartley Leatherland
Cassandra Renee' Love
Kyle Mannion *
Samantha Elizabeth Morin
Steve DeCarlo Murrell
Anh Phuong Nguyen
Christopher John Passarotti
Joshua Samuel Ramirez
Hope Marie Saunders
Katherine Theresa Sears
Maya Shalev *+
Jennifer Denise Stegall
Roderick Leroy White
Elizabeth Kristine Yates

Bachelor of Science in Chemistry

Gopal Krishnan Balachandran *
Scott Phillip Cole
Kimberly Hope Davis
Daniel Stuart Fabricant
Sharmin Islam
Gregory Kenneth Pittman
Daniel Gray Throckmorton
Thanh Melissa Thi Ngoc Tran
Nancy Anneliese Zech

Bachelor of Science in Geology

William Eugene Engelhaupt Jr.

Bachelor of Science in Mathematical Sciences

Terry Gene Conley Jr.
Melissa Margaret Lutz
Se-In Park

Bachelor of Science in Psychology

Wendy Sue Greenhouse
Jan Cordell Jarrell
Jonathan Gray Moore

The School of Medicine
Established 1879

Bachelor of Science in Clinical Laboratory Science
Crystal Lynn Tatum

Bachelor of Science in Radiologic Science
Amy Boyd Buchanan
Cherin Elizabeth Campbell
Matthew Earl Carrigan
Akella Marie Chapman *
Barbie Boswell Garrison
Susan Adair Lang
Lisa Jean Mayland
Laura LeAnne Morgan *
Michael Brandon Poythress
Kevin David Skipper

The School of Education
Established 1885

Bachelor of Arts in Education
Darley White Bomar
Vanessa Bryce Calhoun
Laura Kelly Marston
Molly Marie Metcalf
Leslie Alison Wainright
Michael David Waters

Bachelor of Science in Science Teaching
Elisabeth Raeburn Bain
Kevin Ashley Beatty

The Kenan-Flagler Business School
Established 1919

Bachelor of Science in Business Administration
Alia Simmone Bushell
Christopher David Ehrenfeld *
Charles Grover Holtzclaw
Sean Edward McCarthy
Jennifer Kaley McColloch
San Pui Mo *++
Alicia Renee Reeves
Herman Wallace Sasser III
Junaid H. Siddiqui
Frederick Bradford Spires
Hunter Marshall Teske
Virginia A. Traver
Jason Corey Whitehurst
George Badgett Womble
Heidi Jan Zehnal

The School of Journalism and Mass Communication
Established 1924

Bachelor of Arts in Journalism and Mass Communication
Todd Fitzgerald Allen
Mary Susan Bailey
Ashley Noelle Bolton
Holly Rebekah Bowman
Kimberly Yvonne Brooks
Kevin Bernard Bullard
Stacy Lee Burbank
Nancy Lisa Chorebanian
Janet Julia Duch
Michael Joshua Elliott
Tricia Ann Johnson
Nomee Jo Landis *
Shannon Elizabeth Lee
Tesia Penelope Love
Jennifer Diane Maloney
Ginger Michelle Massey
Eldora Dawn Prince
Amy Lynn Reckenbeil
Jennifer Leah Smith
William Lyn Stanley
Clay Buren Stapleford
Karin Elizabeth Turner
Cherriece Monta Wright

The School of Public Health
Established 1939

Bachelor of Science in Public Health
Karen Elizabeth Erickson
Windsor Alston Florence
Cisley Grace Howe-Henderson
Patricia Lynn Metzger
Jennifer Lauren Shepherd
Angela Marlene Stem

The School of Dentistry
Established 1949

Bachelor of Science in Dental Hygiene
Holly Ann Cook
Kathryn D. Kinney-Kirby
Wren Rachel Musof
Kimberly Anne Staley
Jennifer Leigh Stewart

Certificate in Dental Hygiene
Donald Coleman McGinnis

The School of Nursing
Established 1950

Bachelor of Science in Nursing
Susan Annette Lashley
Suzanne Esther Moore
Susan Catherine Rebert
Michael Wayne Smith
Patricia S. Vandergrift *
Ellen R. Wheaton *

Candidate Commissioned in the United States Armed Forces

United States Navy Ensign
Susan Adair Long

Natasha Blakeney

The greatest education you can receive at Carolina is what you learn about yourself.

Baccalaureate Degrees May 1997

Due to a records error these degrees were awarded at a special ceremony after the 1997 May Commencement.

The College of Arts and Sciences
Established 1795

Bachelor of Arts

History
Christine Sandra Blackwood
Tammy Alice Bouchelle

Communication Studies
Corbin Lynn Williams

** Indicates degree with distinction based on GPA. ** Indicates degree with highest distinction based on GPA. + Indicates Honors recipients. ++ Indicates Highest Honors recipients.*

The First State University

The framers of North Carolina's first state constitution wrote in 1776 that "all useful learning" should be "duly encouraged and promoted in one or more universities." The University of North Carolina at Chapel Hill was chartered in 1789, the year of George Washington's first inauguration, and in 1795 it opened its doors as the nation's first state university.

New Hope Chapel (now Chapel Hill) was chosen for its central location as the site of the University. The cornerstone for Old East was laid on 12 October 1793 by William Davie, for whom the Davie Poplar, a familiar campus landmark, is named. Thus Old East

became the first building of this or any state university. The University of North Carolina opened its doors on 15 January 1795 and its first student, Hinton James, arrived on foot from the Wilmington area a month later. By 1 March the University had forty-one students and two professors.

The first decades of the nineteenth century saw important developments for the new University. In 1815 the natural sciences were given equal status with the more traditional classical curriculum. In the 1820s Denison Olmstead and Elisha Mitchell prepared and published the nation's first geological survey. In 1832 UNC President Joseph Caldwell built the first astronomical observatory at a state university.

Enrollment increased steadily during this period, and by 1860 only Yale University had more students. The Civil War caused many universities to close, and Carolina was one of the few Southern universities to remain open throughout the war. It was during Reconstruction that the University closed (1870-5) for the only time in its history.

After reopening, the University added programs that enhanced its status as a major university. In 1876 it announced a program of graduate studies leading toward postbaccalaureate degrees. In 1877 it became the first university to open a summer school for teachers. In 1879 it began medical and pharmaceutical studies. The University received its first legislative appropriation for maintenance in 1881. In 1885 it introduced its regular program for the preparation of teachers. In 1892 William Kenan, working in the University laboratory of Dr. Francis Venable, participated in research that identified calcium carbide and developed a formula for making acetylene gas from it. In 1894 the School of Law, which had been semi-independent, was incorporated into the administrative structure. In 1897 women students were admitted for the first time.

At the turn of the century the University had 512 students and a faculty of thirty-five. It had an undergraduate college and a department for the education of teachers, and it was working to establish the schools of Law, Medicine, and Pharmacy. Master's degrees and seven Ph.D.'s had been awarded at the University.

The first three decades of the twentieth century were a period of significant growth. Enrollment first reached one thousand in 1915. A Phi Beta Kappa chapter, Alpha of North Carolina, was formed in 1904. In 1913 the School of Education was established and the Bureau of Extension was organized to extend the University's resources to North Carolinians on a regular basis. The endowed Kenan professorships fund, established in 1917, provided incentive for excellence in teaching and research. In 1919 the School of Commerce, now the Kenan-Flagler Business School at Chapel Hill, was established. The School of Public Welfare began in 1920 as an outgrowth of the Department of Sociology. In 1950 the school's name was changed to the School of Social Work. In 1922 the University was elected to membership in the Association of American Universities. The University of North Carolina Press was incorporated in 1992, and the Institute for Research in Social Science was organized in 1924. By 1930 there were twenty-six hundred students at the University and a faculty of 222 full- and 85

part-time members. Teaching, study, and research took place at undergraduate, graduate, and professional levels in twelve colleges and schools in twenty-one departments.

The Consolidation Act of 1931 joined the University with the Woman's College at Greensboro and North Carolina State College in Raleigh. A single Board of Trustees allocated functions among the three constituent institutions. The offices of the Consolidated University were established at Chapel Hill, and University President Frank Porter Graham became the Consolidated University's first President.

Also in 1931 the School of Library Science was established and the Institute of Government founded. (The institute, first of its kind in the nation, became an official part of the University in 1942.) In 1936 the School of Public Health was formed. In 1940 the naval ROTC unit was created; it was joined by the Air Force ROTC unit in 1947.

The Division of Health Affairs was formally organized in 1949, with Schools of Dentistry and Nursing added to the existing schools of Medicine, Pharmacy, and Public Health. Thus the University became one of the relatively few in the United States to have schools in the five health professions. The opening of North Carolina Memorial Hospital in 1952 provided clinical facilities for the schools.

The Morehead Building and Planetarium were completed in 1949 and in the next year the School of Journalism was started. The William Hayes Ackland Memorial Art museum was completed in 1958. In the following year the University was one of the first to install a large computer system. More recently the campus has undergone extensive building. The Walter Royal Davis Library was dedicated by Governor James Martin in 1985 and Wilson Library became a special collections library. Other new building projects include the Smith Center for athletic and cultural events; the Kenan Center, Fetzer Gymnasium; Carmichael Residence Hall; and new facilities for the departments of Art, Chemistry, and Computer Science. The medical complex boasts Memorial Hospital's new Critical Care Center, the Lineberger Cancer Research Building, and the Public Health and Environmental Sciences Building. Construction in the late 1990s added even more instructional and research facilities to campus.

Beginning with one building, one hundred students and two professors, The University of North Carolina at Chapel Hill has grown to 190 permanent buildings, twenty-two thousand students, and nineteen hundred full-time faculty. There are more than 212,000 living alumni, among whom can be counted thirty-one North Carolina governors and U. S. president James K. Polk. Also noteworthy are Academy Award and Pulitzer Prize winners Louise Fletcher, Vermont Royster, and Jeff MacNelly and television news personalities Roger Mudd and Charles Kuralt. Other outstanding alumni in the arts include the novelist Thomas Wolfe, the playwright Paul Green, and actor Andy Griffith.

The University has been recognized for the quality of its graduate programs in every national survey conducted in the past third of this century. Annual surveys regularly cite The University of North Carolina at Chapel Hill as one of the best colleges in the nation and one of the few state universities among the top research institutions. One asset that contributes to this reputation is Carolina's superb library system. The system contains more than three million volumes and is ranked among the top research libraries in the United States and Canada by the Association of Research Libraries. Libraries include Davis Library, Wilson Library, the House Undergraduate Library, and the Health Sciences Library, along with another twelve school and departmental libraries. Wilson Library houses the extensive North Carolina, Southern Historical, and Rare Book Collections.

The University that opened in Chapel Hill in 1795 is now the most comprehensive institution in North Carolina, both in the range of its programs at all levels and in the breadth of its specialized research and public service programs. The University's thirteen colleges and schools provide instruction in more than one hundred fields, offering 95 bachelor's, 175 master's, and 109 doctoral degrees, as well as professional degrees in dentistry, medicine, pharmacy, and law. The University has more than remained faithful to its founders' charge to duly encourage and promote all useful learning for the betterment of humanity.

Adapted from an article by William S. Powell, Professor Emeritus, Department of History.

A Message to Carolina's Newest Alumni

The General Alumni Association (GAA), founded in 1843, is a self-governed, nonprofit organization, funded primarily by membership dues. The GAA conducts no fundraising.

Membership in the GAA is open to all alumni and friends of the University. There are more than 58,000 members, including nearly 28,000 Life members.

Membership benefits include an annual subscription to the award-winning bi-monthly *Carolina Alumni Review*, invitations to GAA-sponsored events (class reunions, alumni club activities, enrichment programs, weekend seminars, travel programs, etc.), eligibility for group health and life insurance, the Carolina Alumni VISA card, and discounts on hotel rates and car rentals.

New graduates may be particularly interested in our Alumni Career Services. They include DISCOVER Career Guidance Software, worldwide job hotline numbers, the Alumni Adviser Network, professional consulting and seminars, national employer databases, job postings, and many more services.

There are also opportunities to network through alumni club programs. Approximately one hundred local Carolina Clubs throughout the United States and abroad provide a variety of activities for Carolina alumni and friends.

The GAA Records Department maintains an alumni database of more than living alumni. Please make sure your record is kept up-to-date, including your current address.

The GAA offices are in the George Watts Hill Alumni Center. Located near Kenan Stadium on Ridge Road, the Alumni Center hosts a variety of GAA programs and activities that serve the University community. The Alumni Center also contains the Carolina Club, a dining club for alumni, faculty, and staff.

If you have questions or would like to join the GAA, please stop by or call (919) 962-0742 or the toll-free number 1-800-962-0742. The e-mail address is <membership@unc.edu>.

Commencement Committee

Richard J. Richardson, Chair
Richard N. Andrews
Pamela G. Ball
Dana Davis Bayley
Ronald S. Binder
Nancy Jo Black
Laura Cartner
Ned V. Collett Jr.
Douglas S. Dibbert
Joseph S. Ferrell
Jeffrey W. Fuchs
Donald L. Gold
Franklin C. Golden
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